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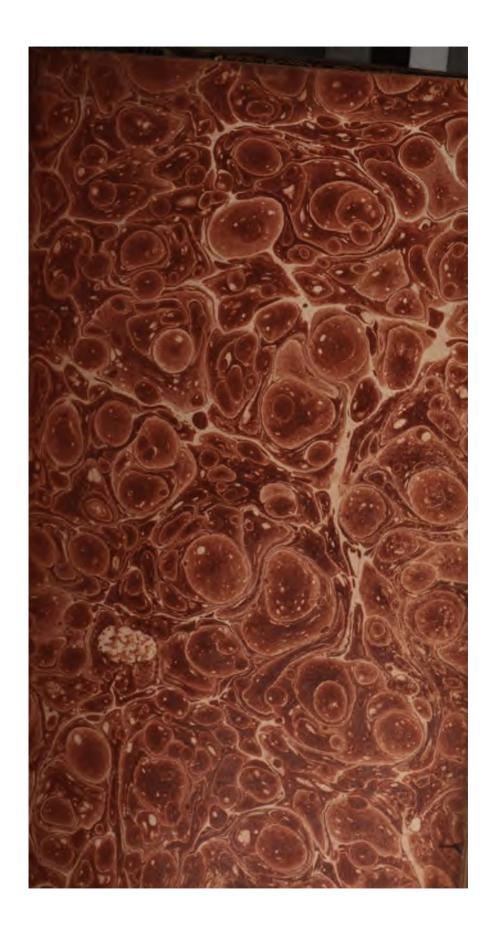
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ENGLISH BOTANY;

OR,

COLOURED FIGURES

OF

BRITISH PLANTS,

WITH THEIR

ESSENTIAL CHARACTERS, SYNONYMS, AND PLACES OF GROWTH.

TO WHICH WILL BE ADDED,
OCCASIONAL REMARKS.

BY

JAMES EDWARD SMITH, M.D. F.R.S.

MEMBER OF THE IMP. ACAD. NATURÆ CURIOSORUM, THE ACADEMIES OF STOCKHOLM, UPSAL, TURIN, LISBON, LUND, BERLIN, PHILADELPHIA, AND THE NAT. HIST. SOCIETY OF PARIS;

PRESIDENT OF THE LINNÆAN SOCIETY.

THE FIGURES BY

JAMES SOWERBY, F.L.S.

" VIRESQUE ACQUIRIT EUNDO."—Virg.

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COLOUTUS FIGURES

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[22]

ORCHIS bifolia.

Butterfly Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Nettery a spur behind the flower.

Spec. Char. Bulbs undivided. Lip of the nectary lanceolate and entire, the horn very long. Outer petals spreading.

Syn. Orchis bifolia. Linn. Sp. Pl. 1331. Hudf. Fl. Ann. 382. With. Bot. Arr. 967. Relb. Cantab. 331.

Orchis hermaphroditica bifolia. Raii Syn. 380.

IN meadows and pastures throughout most parts of England, but seldom in great plenty. The flowers appear about the beginning of June, and are highly fragrant, especially in an evening.





[110]

ORCHIS pyramidalis.

Pyramidal Orchis.

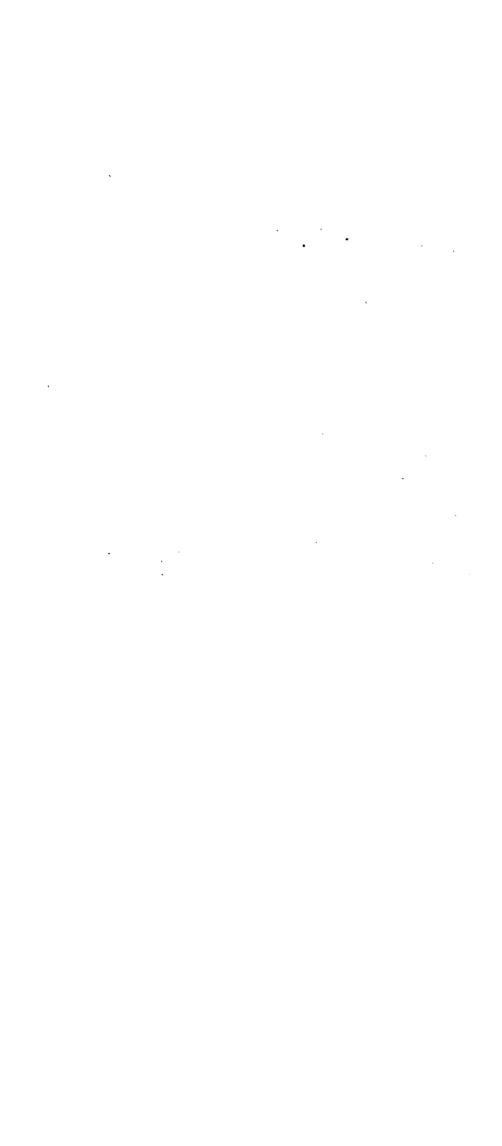
GYNANDRIA Diandria.

GEN. CHAR. Nectary a spur behind the flower.

- SPEC. CHAR. Bulbs undivided. Lip of the nectary in three equal fegments, entire, with two protuberances, the horn long. Petals ovato-lanceolate.
- SYN. Orchis pyramidalis. Linn. Sp. Pl. 1332. Hudf-Fl. An. 382. With. Bot. Arr. 969. Relb. Cant. 332.
 - O. purpurea spica congesta pyramidali. Raii Syn. 377. 1ab. 18.

GROWS in meadows and pastures in a calcareous soil, more especially on chalky downs, slowering later than most others of the Orchis tribe, seldom before July. The whole herb is, as Dr. Stokes remarks, of a silky glossiness, and of an unspotted palish green. Spike dense, the buds erect; but as





ORCHIS Morio.

Green-winged Meadow Orchis.

GYNANDRIA Monandria.

GEN. CHAR. Nectary a spur behind the flower. Anther parallel to the style.

SPEC. CHAR. Bulbs undivided. Lip of the nectary four-cleft, somewhat crenate; spur obtuse, ascend-Outer petals cohering, many-ribbed.

SYN. Orchis Morio. Linn. Sp. Pl. 1333. Sm. Fl. Brit. 920. Swartz. Orchid. 12. Huds. 383. With. 23. Hull. 194. ed. 2. 252. Relh. 343. Sibth. 10. Abbot. 192. Curt. Lond. fasc. 3. t. 59.

O. morio fœmina. Raii Syn. 377.

A NATIVE of meadows and pastures that are rather moist,

flowering in May, or early in June.

Root of two nearly globose bulbs, one of which is a little removed from the other by its stalk. Leaves lanceolate, of a deepish, but rather glaucous, unspotted green; paler and shining underneath. Spike rather loose, of from 4 to 8 or 10 flowers, whose predominant colour varies from a very pale to a rather deep reddish purple*, but in all the varieties the green ribs of the outer petals, (or rather 3-leaved calyx), which mark this species, are equally strong. These leaves cohere over the 2 real petals within. The spur is curved upward, and obtuse. Lin of 2 defeated parallel lobes, each of ward, and obtuse. Lip of 2 deflexed parallel lobes, each of which is cloven and irregularly crenate, the central ridge be-tween them white, dotted with purple. The common stalk, bracteas and germens are more or less tinged with the same

We are persuaded of the propriety of terming the 3 outer leaves of the flower, in the Orchis tribe, a calyx, and the 2 inner ones petals, see *Introd. to Bot.* 461, according to which principle our descriptions may, at the pleasure of the reader,

be reformed.

^{*} See Mr. Sowerby's very ingenious Elucidation of Colours, tab. 5. f. 23.





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[631]

ORCHIS mascula.

Early Purple Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Neclary a spur behind the flower.

Spec. Char. Bulbs undivided. Lip of the nectary in four crenate lobes: fpur blunt. Outer petals reflexed.

SYN. Orchis mascula. Linn. Sp. Pl. 1333. Huds. 383. With. 24. Hull. 194. Rell. 333. Sibth. 10. Abbot. 192. Curt. Lond. sasc. 2. t. 62. Dicks. H. Sicc. sasc. 11. 14. With. Med. Bot. t. 90.
O. morio mas soliis maculatis. Raii Syn. 376.

THIS is the first Orchis that appears in the spring, and one of the most common. Pastures, groves, and shady dells are adorned with its purple blossoms about the end of April or the beginning of May. Then the Cardamine pratensis, the Saxifraga granulata, or the Cowssip, combine with it to form many a rustic nosegay, while the Adoxa, dissusing its musky scent in vain, is trampled under soot, in the search for these more oftentatious slowers.

The root confifts of two large oval bulbs, and is one of those





ORCHIS ustulata.

Dwarf Orchis.

GINANDRIA Diandria.

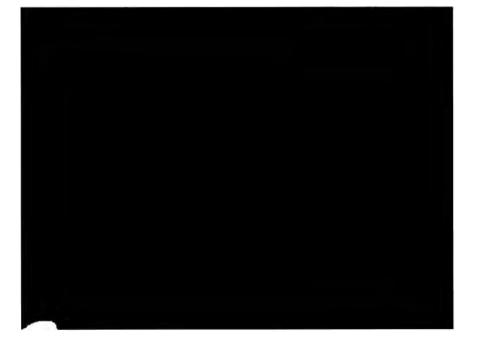
GEN. CHAR. Nellary a spur behind the flower.

Spec. Char. Bulbs undivided. Lip of the nectary fourcleft, rough with points; horn obtuse, petals distinct.

SYN. Orchis usulata. Linn. Sp. Pl. 1333. Hudf. Fl. An. 384. With. Bet. Arr. 973.

O. pannonica 4. Raii Syr. 377.

THE Little Orchis figured on this plate has obtained its trivial name of whalsts, from the remarkable colour of its flowers, which appear on a curfory view, and especially before they are fully expanded, as if scorched or blackened by heat. When







ORCHIS militaris.

Narrow-lipped Military Orchis.

GYNANDRIA Monandria.

GEN. CHAR. Nectary a spur behind the flower. Anther parallel to the style.

Spec. Char. Bulbs undivided. Lip of the nectary five-cleft, rough with points; its segments linear. Petals acuminated, confluent.

Syn. Orchis militaris. Linn. Sp. Pl. 1333. Sm. Fl. Brit. 922. Swartz. Orchid. 14. Huds. 384. With. 26. var. 3. Hull. 194. var. 3. Sibth. 10. O. galeâ et alis ferè cinereis. Raii Syn. 378.

WE have in v. 1. t. 16, figured the Broad-lipped Military Orchis, or O. militaris β, Fl. Brit. 923; and as the present plant, gathered near Dartford by Mr. Peet, F.L.S., is generally esteemed a distinct species, and is decided to be so by the greatest botanist in this tribe Professor Swartz, we think it essential to make the English student acquainted with it, especially as its beauty and rarity render it a general favourite. A frequent examination of these charming plants in the grassy walks about Rome, see Tour on the Continent, ed. 2. v. 2. 312, determined me to consider them as varieties; but possibly the acuminated calyx or petals, and the more or less linear lobes of the lip, may keep this distinct from t. 16, which must then retain the name of fusca, and of this the moravica of Swartz is not even a variety, while his tephrosantos is a very slight one of O. militaris. The bracteas vary in size.

All the varieties of these two species smell like Woodruff while drying. They flower with us in May, and love a chalky soil, being chiefly found in Kent and Oxfordshire. If treated as mentioned in Intr. to Bot. 110, they succeed well in a garden-pot. The reader is referred to p. 458 of the same work for the reasons which lead us now to refer all the Orchideæ, except Cypripedium, to Gynandria Monandria, they having properly but I anther.—According to the system of Swartz, Satyrium hircinum, viride & albidum are species of Orchis,

and Nature confirms this arrangement.





1.

ORCHIS militaris.

Military Orchis.

GTNANDRIA Diandria.

GEN. CHAR. Nectary a spur behind the flower.

Spec. Char. Bulbs undivided. Lip of the nectary five-cleft, rough with points: horn obtufe. Petals confluent.

SYN. Orchis militaris. Linn. Sp. Pl. 1333. Huds. Fl. An. 384. With. Bot. Arr. 974.

O. magna, latis foliis, galea fusca vel nigricante. Raii Syn. 378.

I HERE are few of the English Orchifes which can come in competition with the species here represented, in point of elegance. From a fancied fimilitude in the nectarium to the shape of the human body, it has obtained its popular title of Man-Orchis. In the colour of its flowers it varies confiderably: the nectarium indeed generally preserves an uniformity of colour in most individuals; but the petals in some are of a much deeper tinge than in others, being frequently of a pale ash colour; at other times of a brownish cast, and in some individuals even of a deep brownish purple, which variety is usually called the blackish-flowered Man-Orchis. 'This species flowers in the beginning of June, and grows generally on dry and chalky foils, and in the neighbourhood of woods. It is much less common than several others of this genus. As there is another species of British Orchis which is generally known by the title of Man-Orchis (and which will hereafter be figured in the prefent work), we have thought it better to apply the term Military to this species, taken from the Latin name, which has been given on account of the refemblance which the upper part of the flower bears to a helmet.









ORCHIS latifolia, Marsh Orchis.

GYNANDRIA Monandria.

GEN. CHAR, Nectary a spur behind the flower. Anther parallel to the style.

Spec. Char, Bulbs somewhat palmate. Horn of the nectary conical: lip three-cleft, Bracteas double

the length of the flowers.

Syn. Orchis latifolia. Linn. Sp. Pl. 1334. Sm. Fl. Brit. 924. Huds. 385. With. 26. Hull. ed. 2. 253, Relh. 334. Sibth. 11. Abbot. 192. Curt. Lond. fasc. 5. t. 65. Fl. Dan. t. 266.

O. palmata pratensis latifolia, longis calcaribus.

Raii Syn. 380.

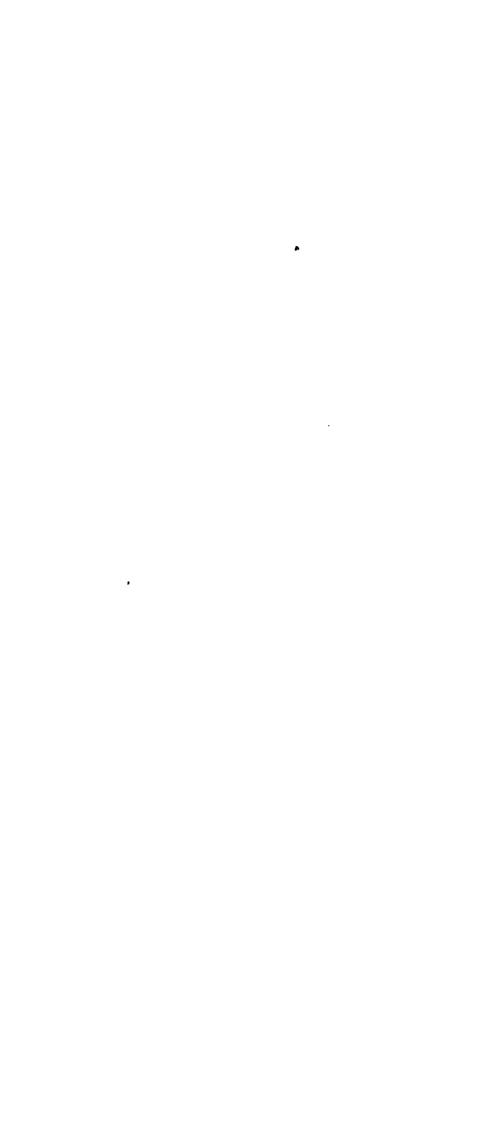
B.O. palmata palustris, tota rubra. Dill. in Raii Syn. 382.

FREQUENT in marshy meadows, flowering in May and June.

The roots are imperfectly palmate, consisting of unequal awlshaped straightish lobes or portions. Stem hollow, leafy, from one to two feet high. Leaves sheathing, lanceolate, broadish, gradually smaller upwards, unspotted. Spike dense, many-flowered, pointed. Bracteas remarkably long, erect, leafy, sometimes coloured. Flowers varying in hue from a pale flesh-colour to a full rose or crimson, the side petals dotted, the middle of the lip elegantly variegated. Spur deflexed, somewhat shorter than the germen.

We adopt the variety β from Dillenius only. This species is certainly variable in size and colour, and, as Ray observes, is described in books several times over. It has been thought by some of our friends that two species, differing somewhat in their times of flowering, length of bracteas, and colour of the corolla, exist in England, but we have not been able to ascertain this point.





[632]

ORCHIS maculata.

Spotted Palmate Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Neclary a spur behind the flower.

Bulbs palmate, spreading. Spur ra-SPEC. CHAR. ther shorter than the germen: lip three-cleft, flat. Outer petals divaricated.

SYN. Orchis maculata. Linn. Sp. Pl. 1335. Hudf. 385. With. 27. Hull. 195. Relb. 334. Sibtb. 11. Abbot. 193.

O. palmata speciosiore thyrso, solio maculato. Raii Syn. 381.

Most common in meadows or moist passures, but it occurs also in groves, and sometimes in dry barren ground, slowering towards the end of June or beginning of July.

The bulbs in this species are palmate as in O. conopsea, Stem leasy, simple, 12 or 18 inches high, round, solid. Leaves lanceolate, keeled, spotted on both sides with scattered purple blotches. Spike ovate, various in size. Bracteæ scarcely longer than the germen, purplish. Flowers very variable in size, as well as in the purple lines and spots on the nectary. In general the ground of the whole slower is white, tinged with a purple blush, and the spots are deep purple, making a very elepurple blush, and the spots are deep purple, making a very elegant appearance when closely examined. The lip is flat, with two large rounded side-lobes, and an intermediate sharp small point. Stamina green.

The order of the standard of the is latifolia, but that is easily known by the great length of its bracter, and its uniformly green leaves.

Linnæus in Flo. Succ. remarks that the bulb which is defined to bear the plant of next year is so heavy as to fink in water, while that from which the prefent herb fprings is light enough to fwim. This is plainly his meaning, which is not fo clearly expressed in Dr. Withering's concile translation as ufual with him.





[10]

ORCHIS conopfea.

Aromatic Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Nectary a spur behind the flower.

Spec. Char. Bulbs palmated. Nectary very flender and acute, longer than the germen; lip in three parts. Two of the petals spreading very much.

SYN. Orchis conopsea. Linn. Sp. Pl. 1335. Huds. Fl. An. 385. With. Bot. Arr. 977. Relb. Cantab. 335.

Palmata rubella cum longis calcaribus rubellis. Raii Syn. 381.

THIS Orchis is found in wet pastures and bogs, in June and July. Its slowers are highly fragrant, approaching in smell to the red clove pink; their colour varies from deep purplish red, to slesh colour, and even white. Its leaves are long, and narrower than those of any other English species.

The specific name Conopsea alludes to a fancied resemblance of the flowers of this plant to the genus of insects called Conops by Linnæus. In many other species of this tribe the flowers much more evidently resemble insects.





[34]

SATYRIUM hircinum.

Lizard Satyrion, or Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Nectary an inflated roundish bag behind the flower.

Spec. Char. Bulbs round. Leaves lanceolate. Lip in three fegments; the intermediate one very long, twifted, linear, abruptly jagged at the tip.

SYN. Satyrium hircinum. Linn. Sp. Pl. 1337. Huds. Fl. An. 386. With. Bot. Arr. 979.

Orchis barbata fœtida. Raii Syn. 376.

IT is with peculiar pleasure we present the public with so very rare and curious a plant as that which is here figured, and which was drawn from a wild specimen obligingly communicated from the neighbourhood of Dartford by Mr. Lewin, well known by his fine work on British birds. Ever since the time of Ray it has been occasionally met with in that neighbourhood, though no where else in England; but the greediness of collectors has frequently endangered its total destruction, and in some seasons none can be found in slower. It is





•

SATYRIUM viride.

Frog Satyrion, or Orchis.

GTNANDRIA Diandria.

GEN. CHAR. Nettary an inflated roundish bag behind the flower.

Spec. Char. Bulbs palmated. Leaves oblong, obtufe. Lip linear, three-cleft, the middle fegment smallest.

SYN. Satyrium viride. Linn. Sp. Pl. 1337. Hudj. Fl. An. 386. With. Bot. Arr. 981. Relb. Cant. 335. Orchis palmata minor flore luteo-viridi. Raii

Syn. 381.

In meadows and pastures, especially in a gravelly or rocky foil, in most parts of England, slowering about May, June or July, but growing dispersed, so as to be rarely found in any quantity together. We were favoured with this specimen from near Luton Hoo, Bedfordshire, by Mr. Sibley, a gentleman who has paid much attention to the Orchis tribe.

Dr. Stokes has given an excellent and full description of this plant in the Bet. Arr. to which we have nothing to add, nor can the species be consounded with any other. The colour of the lip varying from yellowish green to brown, and its middle segment varying likewise in size, a common accident in this tribe, gave occasion to Mr. Hudson to describe a Satyrium suscum, Fl. An. ed. 1. but on no sufficient grounds, as the brown colour and the equally divided lip by no means constantly accompany each other, witness our figure.





[505]

SATYRIUM albidum.

White Satyrion.

GYNANDRIA Diandria.

GEN. CHAR. Nectary an inflated roundish bag behind the flower.

Bulbs fasciculate. Leaves lanceolate. SPEC. CHAR. Lip of the nectary three-cleft, acute; the middle segment longest.

Satyrium albidum. Linn. Sp. Pl. 1338. Huds. 387. With. 31. Lightf. 519. Dicks. H. Sicc.

fasc. 1. 15.

Orchis palmata thyrso specioso, longo, dense stipato, ex viridi albente. Dill. in Raii Syn. 382.

FRESH specimens of this rare plant were sent us in June last from Hafod, Cardiganshire, by Miss Johnes. It grows It grows copiously on the elevated exposed grassy hills which surround that romantic place, as well as in similar situations in Scotland; nor have we ever observed it in moist meadows, as Hudson (after Dr. Richardson in Ray's Synopsis) mentions. Hence I have been led to suspect the propriety of this synonym, and have been led to suspect the propriety of this synonym, and whether the preceding Orchis, n. 23. which remains unnoticed by late authors, may not rather belong to the plant before us. It must be confessed, indeed, that the epithet "odorata" scarcely agrees with Satyrium albidum, but neither does "thyrso specioso." I have had some idea of this n. 23. being the Orchis sambucina, which the Rev. Mr. Wood of Leeds thinks he once found near Snowdon.

The root of S. albidum is thus explained by Mr. Sowerby, from the consideration of several specimens: a a central fibre.

from the consideration of several specimens: a a central fibre; b one a little above it; cc a pair of fibres, one on each side; dd a pair of old bulbs, the origin of the present plant; ec a pair of bulbs for next season; ff a younger pair.

The stem is scarcely a foot high, roundish, leafy. Leaves

sheathing, lanceolate, of a light green, rather glaucous be-neath, the lowermost broadest and most obtuse. Spike of many small greenish-white flowers, almost inodorous, each of them accompanied by a lanceolate bractea rather longer than the germen. Petals concave, all nearly equal. Spur longer than in most of the genus, so as almost to make it an Orchis according to Linnæan rules, and it certainly has great affinity with several of that genus in other respects. Lip green, pal-mate, with three lobes, of which the middle one is larger, and ometimes blunter, than the others.





[289]

SATYRIUM repens.

Creeping Satyrion.

GYNANDRIA Diandria.

Nectary an inflated roundish bag behind GEN. CHAR. the flower.

SPEC. CHAR. Roots fibrous, creeping. Leaves ovate, Flowers leaning one way. radical.

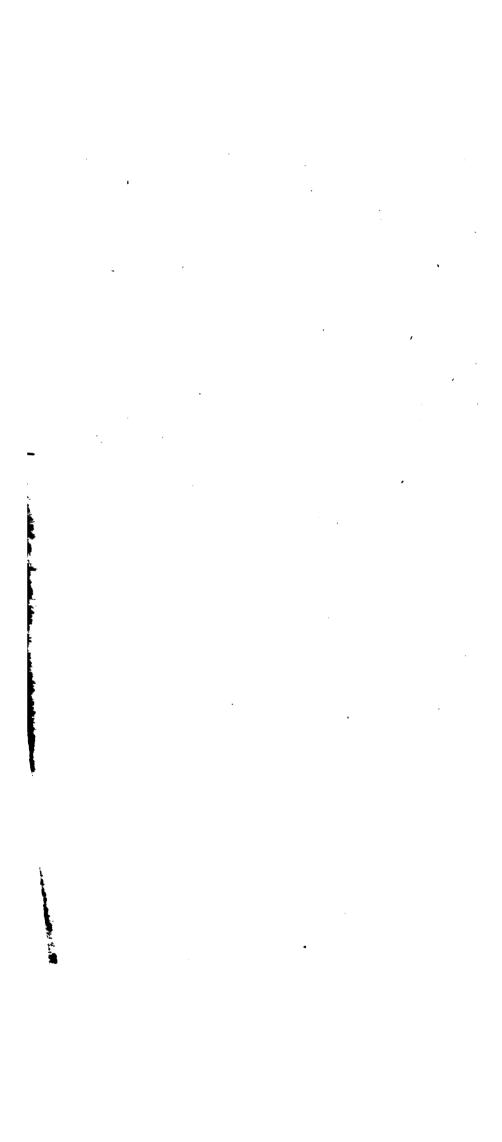
Satyrium repens. Linn. Sp. Pl. 1339. Huds. N. An. 387. With. Bot. Arr. 982. Lightf. Fl. Fl. An. 387. Sc. 520. f. 22. bad. Dicks. Dr. Pl. 85.

ACCORDING to the custom we have hitherto adopted of beginning each volume with some peculiarly interesting plant, we here exhibit one of the most rare of the favourite Orchis tribe, for which we are obliged to James Brodie, Esq. the gentleman who discovered *Pyrola uniflora* (t. 146.) in Scotland, and communicated it to Mr. James Hoy, as Mr. Hoy himself has informed us since our account of that plant was published. This *Satyrium* grows in Alpine fir forests, not in "pastures and thickets." Our specimens were sent fresh from Scotland by the post and came in perfectly good order, as plants of by the post, and came in perfectly good order, as plants of

this tribe dry so very slowly.

The roots are perennial, truly creeping, not bulbous, very succulent, downy, running among moss, and attaching them-selves to decayed fragments and leaves of fir in the manner of Leaves in tufts at the end of each runner, on broad sheathing footstalks, ovate, succulent, strongly 5- or 7-ribbed, and reticulated with transverse veins which are often brown, and the leaves are now and then prettily chequered with that and the leaves are now and then prettily chequered with that colour. Stalks erect, 6 or 8 inches high, round, downy upwards, clothed with a few alternate sheathing bracteæ, and terminated with an erect spike of numerous pale flesh-coloured fragrant flowers, leaning one way, but turning a little spirally round the stalk; each being accompanied by a lanceolate, concave, coloured, downy bractea, longer than the germen, which also is clothed with viscid downiness, as well as the three broader external petals. Haller describes the flower as having only three petals, besides the nectary, which Lightfoot conies. having probably never seen the plant alive, for his opies, having probably never seen the plant alive, for his plate is excessively faulty. Mr. Sowerby found two internal lanceolate petals (as in the figure) which, like those of Orchis intulata, are very difficult to be detected in a dried specimen, being "glued as it were" to the upper one, which the others are not by any means, though Haller says they are. Perhaps that great naturalist might make slight notes in the field, and confuse himself in copying them afterwards. Lightfoot's account is compiled from Haller's without acknowledgment. His whole book is nearly made up of such plagiarisms, and he is hence often deservedly led astray.





[48]

OPHRYS Nidus avis.

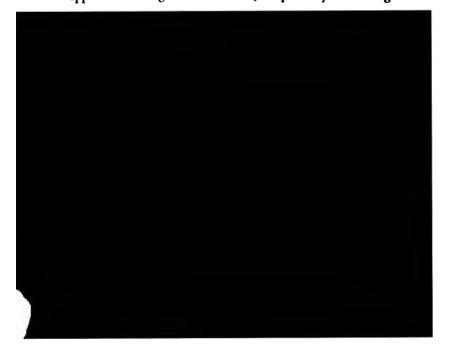
Bird's-nest Opbrys.

GYNANDRIA Diandria.

- GEN. CHAR. Nectary confifting of a lip only, flightly carinated at the back.
- Spec. Char. Bulbs in the form of fleshy clustered fibres. Stem clothed with scaly sheaths, without leaves. Nectary cloven.
- SYN. Ophrys Nidus avis. Linn. Sp. Pl. 1339. Huds. Fl. An. 388. With. Bot. Arr. 983. Relb. Cantab. 336.

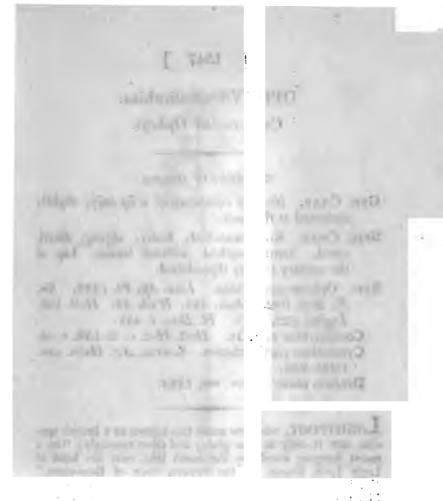
Nidus avis. Raii Syn. 382.

THIS fingular species of Ophrys, whose habit so nearly approaches the genus Orobanche, is probably like that genus









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OPHRYS corallorhiza. Coral-rooted Ophrys.

GYNANDRIA Diandria.

GEN. CHAR. Nectary consisting of a lip only, slightly carinated at the back.

Spec. Char. Root branched, fleshy, zigzag, divari-cated. Stem sheathed, without leaves, Lip of the nectary slightly three-lobed.

Linn. Sp. Pl. 1339. Ophrys corallorhiza. Fl. Brit. 932. Huds. 388. With. 32. Hull. 196.

Lightf. 523. t. 23. Fl. Dan. t. 451. Corallorrhiza n. 1301. Hall. Hist. v. 2. 159. t. 44. Cymbidium corallorrhizon. Swartz. Act. Holm. ann. 1800. 238.

Dentaria minor. Ger. em. 1585.

LIGHTFOOT, who first made this known as a British species, saw it only in one place, and there sparingly; "in a moist hanging wood, on the south side, near the head of Little Loch Broom, on the western coast of Ross-shire."

We know not that any person has since met with it. till We know not that any person has since met with it, till Mr. Thomas Bishop, to whom we are obliged for fresh specimens, found it in small quantities, in 1804 and 1805, in Methven wood 6 miles from Perth. It has not been observed in England, Wales or Ireland, though surely to be expected in the boggy alpine woods of the last-mentioned country. It is perennial, and flowers in July.

The root differs greatly from all other British plants of this

The root differs greatly from all other British plants of this family, being very much branched and divaricated, whitish, fleshy, somewhat downy. The stem is about a span high, simple, clothed with 2 or 3 alternate, cylindrical, greenish, swelling sheaths, which supply the place of leaves. Spike terminal, of a few flowers, each of which has a minute at the base of its little stalk. Petals lanceolate, acute, a green rib; 3 of them erect; 2 spreading and ward. Lip ovate, furrowed, as long as the perotched on each side, in which last particular Fl. Brit. requires correction. The lid of all and moveable.

al and moveable.





OPHRYS ovata. Common Twayblade.

GYNANDRIA Diandria.

GEN. CHAR. Nectary consisting of a lip only, slightly carinated at the back.

Spec. Char. Root of clustered fleshy fibres. A pair of elliptical leaves on the stem. Nectary linear, two-lobed.

SYN. Ophrys ovata. Linn. Sp. Pl. 1340. Sm. Fl. Brit. 932. Huds. 388. With. 34. Hull. 196. Relh. 347. Sibth. 12. Abbot. 195. Curt. Lond. fasc. 3. t. 60.

Epipactis ovata. Swartz. Act. Holm. ann. 1800. 232. Bifolium majus, seu Ophris major quibusdam. Raii Syn. 385.

IN groves and pastures not unfrequent, flowering in June. Our specimen, gathered on the bushy hills above Matlock Bath, is rather smaller than the usual size of the plant in more moist situations.

The root is perennial, consisting of numerous simple fibres. Whole plant of a greenish cast. Stem a foot or 18 inches high, bearing about its middle a pair (rarely more) of sheathing, elliptical, ribbed, smooth leaves. Below these leaves the stem is angular and smooth, above them round and downy, terminating in a long, dense, upright spike of numerous green flowers, each on a partial stalk, with an acute bractea. Petals with a red or brown tinge, all concave, and directed rather upward. Lip long, pendent, yellowish green, linear, concave at the base, with a rib on the upper side, and ending in 2 rather spreading equal lobes. Column 2-lipped, the upper lip bearing the antherse, which are brown, parallel, often falling out (as in our magnified figure), discharging two masses of yellow pollen which stick to the lower lip of the column, under which, on its other side, is the stigma. Very often these masses of pollen are scattered over other parts of the plant, as Dr. Scott and others have noticed in Orchis lifelia.



7. 7.

10, 1

OPHRYS cordata. Heart-leaved Mountain Ophrys.

GYNANDRIA Diandria.

Nectary consisting of a lip only, slightly GEN. CHAR. carinated at the back.

Root of clustered fleshy fibres. SPEC. CHAR. of heart-shaped leaves on the stem. Nectary with four lobes.

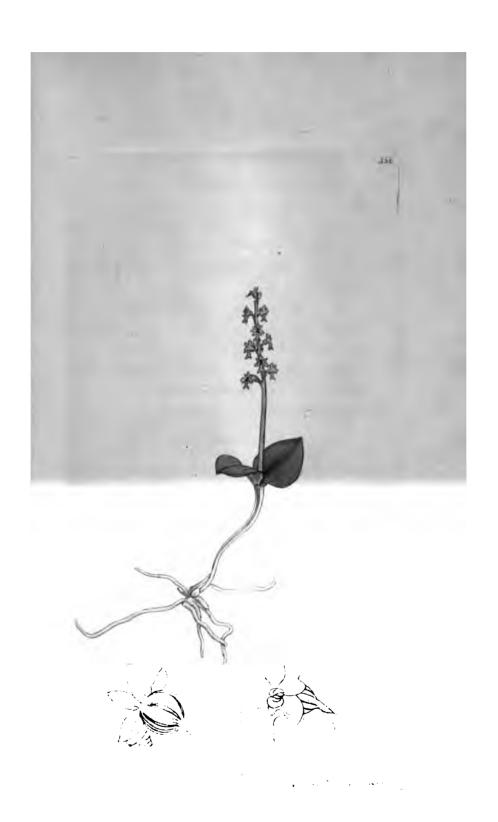
Ophrys cordata. Linn. Sp. Pl. 1340. Huds. SYN. With. Bot. Arr. 988. Fl. An. 388.

Bifolium minimum. Raii Syn. 385.

FOR this rare alpine plant we are obliged to Mr. Salt of Sheffield, a most assiduous investigator of the vegetable creation, who gathered it on the high turfy moors to the south-west of that town, as indicated by Dr. Smith in Withering's Bot. Arr. It grows in moist, shady spots, flowering in June or July.

The root is not much unlike those of Ophioglossum vulgatum

and Osmunda lunaria; we suspect it to be, like those, truly perennial, and not forming a cluster of fibres one year which are totally obliterated (while a new cluster is forming) the next. Stem solitary, angular, 4 or 5 inches high, simple, erect, bearing about its middle a pair of opposite, heart-shaped, pointed, smooth, veiny leaves. Spike terminal, upright, composed of numerous green inconspicuous flowers, whose petals are spreading, equal in length, the 2 innermost only being narrower than the rest, and all often tinged with brown. Lip of the nectary long, dependent, yellowish, having 2 ex-tended linear lobes at the base, and being cloven half way into two longer ones of the same figure. By these first-mentioned lobes this species is essentially distinguished from the common Ophrys ovata (not to mention size, or the form of the leaves), which has only very slight prominences in that part of its nectary. The capsule is globose, purplish, crowned with the permanent withering corolla, and bursting by lateral clefts.



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ero, Chan, Bully cludged, oblique face to what bury. Flowert leaving forally to use the Lip mulisided, are notes

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OPHRYS spiralis.

Spiral Ophrys, or Ladies' Traces.

GTNANDRIA Diandria.

GEN. CHAR. Nectary confisting of a lip only, slightly carinated at the back.

Spec. Char. Bulbs cluftered, oblong. Stem fomewhat leafy. Flowers leaning fpirally to one fide. Lip undivided, crenate.

Syn. Ophrys spiralis. Linn. Sp. Pl. 1340. Huds. 389. With. 33. Relb. 337. Sibth. 12. Curt. Lond. fasc. 4. t. 59. Dicks. H. Sicc. fasc. 10. 17. Orchis spiralis alba odorata. Raii Syn. 378.

MISS Lyfons, to whom we were obliged for a wild specimen of the Adonis t. 308, sayoured us with this Opbrys, which may justly be reckoned among the rarer British plants; for although it grows in many parts of the kingdom occasionally, either on dry gravelly or chalky hills or in meadows, and often in great plenty; it will seldom be found flowering two years together on the same spot, nor perhaps till 8 or 10 years after it has been first observed, notwithstanding the root is perennial. Nor do the leaves constantly appear; or if they do, in some years they speedily wither away. Its slowering season is August or September.

The root confifts of feveral oblong downy bulbs, each appearing to be formed 2 or 3 years before it produces the flowering plant, as in Satyrium albidum, t. 505; only in the prefent case those bulbs seem to be produced solitarily, not in pairs. Stem single, 5 or 6 inches high, invested with a few small sheathing leaves. The radical leaves are ovate, spreading, glaucous, smooth, sometimes sinely pubescent about the edge. Spike terminal, erect, of many small, greenish-white, sessile, sweet-scented slowers, leaning to one side, but arranged in a spiral line either to the right or left, and each overshadowed by a concave pointed bractea. The whole spike, with its stalk, is downy and viscid. Three upper petals adhering together. Lip oblong, crenate, with an obsolete lobe at the base. What appears to be the stigma is a very peculiar roundish hairy protuberance, with a cloven point, hanging as it were beneath the antheræ. See Dr. Stokes's full description in Withering.





[47]

OPHRYS Loeselii.

Dwarf Opbrys.

GYNANDRIA Diandria.

GEN. CHAR. Nectary confisting of a lip only, flightly carinated at the back.

Spec. Char. Bulb oval. Stalk naked, triangular. Lip roundish, concave, undivided. Petals linear. Leaves ovato-lanceolate.

SYN. Ophrys Loeselii. Linn. Sp. Pl. 1341. With. Bot. Arr. 988.

O. lilifolia. Relb. Cant. 337. Huds. Fl. An. 390. \(\beta \). Pseudo-Orchis bisolia palustris. Raii Syn. 382.

RAY has mentioned this plant as the production of some moors in the neighbourhood of Cambridge: but those moors were long searched for it in vain by succeeding botanists, till the Rev. Mr. Relhan discovered it a very sew years ago, growing, not very sparingly, where Ray has reported. This gentleman attributes its remaining so long latent, to its usual situation close to the stems of rushes. To him we are obliged





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[71]

OPHRYS monorchis.

Must Orchis.

GTNANDRIA Diendrie.

GEW. CHAR. Nectory confirming of a lip only, flightly carrinated at the back.

SPEC. CHAR. Bulb globose. Stalk naked. Lip of the nectary three-cleft, as well as the inner petals.

Syn. Ophrys Monorchis. Linn. Sp. Pl. 1342. Hudt. Fl. An. 390. With. Bot. Arr. 990. Relb. Cant. 338.

Orchis odorata moschata sive Monorchis. Raii Syn. 378.

GROWS in dry chalky pastures. We have received it from Kent by favour of Mr. Jacob Rayer, and from the neighbourhood of Bury gathered by W. Matthew, Esq. The last-mentioned gentleman suspects the radical leaves do not appear till within sisteen or twenty days of its slowering, which happens early in July.

This frecies is remarkable for having apparently but one





[29]

OPHRYS anthropophora.

Green Man Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Nettary confifting of a lip only, flightly carinated at the back.

Spec. Char. Bulbs roundish. Stem leafy. Lip linear, in three divisions, the middlemost elongated and cloven.

SYN. Ophrys anthropophora. Linn. Sp. Pl. 1343. Hudf. Fl. An. 390. With. Bot. Arr. 991. Relb. Cantab. 338.

Orchis anthropophora oreades. Raii Syn. 379. Column. Ecphr. 1. 320. f. 1. good.

FOUND in chalk pits, hedges, and by road fides in a chalky foil, in various parts of England, very frequently in Kent; flowering in June. It is rather fingular than strikingly beautiful in appearance, and chiefly remarkable for the figure of a naked man represented by the lip of its flower; the petals (which are often brownish) forming a kind of cap or helmet to the figure, as in the Military Orchis, fig. 16. The middle segment of the lip, however, is merely bisid, without any small intermediate tooth.

Columna has given a very good figure and description of this Ophrys in his Ecphrasis above quoted, and claims the honour of being the first who has mentioned it. It has ever since been much celebrated, and is one of those species which Linnœus tells us every body who was curious in plants, when he was at Paris, went from thence to Fontainebleau to see in slower, the neighbourhood of that place abounding with this tribe of plants.



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D. reyoden major. See at 150

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[64]

OPHRYS muscifera.

Fly Orchis.

GYNANDRIA Diandria.

- GEN. CHAR. Nectary confifting of a lip only, flightly carinated at the back.
- Spec. Char. Bulbs roundish. Stem leafy. Lip somewhat convex, downy above, in four straight divisions.
- SYN. Ophrys muscifera. Huds. Fl. An. 391. Relb. Cant. 339.
 - O. myodes. With. Bot. Arr. 992.
 - O. insectisera a (myodes). Lim. Sp. Pl. 1343.
 - O. myodes major. Raii Syn. 379.

FOUND in meadows and pastures on a chalky soil, but not very common. It is most plentiful in Kent and Cambridgeshire, and has also been gathered near Tacolnessone church in Norfolk, and about Bungay in Sussolk; slowering in May and June.

No wonder the fly, the bee, and the spider orchis should have engaged the attention of all who were curious about









[383]

OPHRYS apifera.

Bee Orchis.

GYNANDRIA Diandria.

GEN. CHAR. Nectary confifting of a lip only, flightly carinated at the back.

SPEC. CHAR. Bulbs roundish. Stem leafy. Lip roundish, convex, downy above, in five inflexed divisions, the terminal one acute and recurved.

SYN. Ophrys apifera. Hudf. Fl. An. 391. Curt. Lond. fasc. 1. t. 66. With. Bot. Arr. 993. Relb. Cant. 339. Sibth. Ox. 13.

Orchis fuciflora galea & alis purpurascentibus. Raii Syn. 379.

FOUND occasionally in pastures, chiefly on a chalky soil, and sometimes in great plenty, slowering about July.

Mr. Hudson has justly discriminated the three British species of insect-like Orchises, 2 of which we have already sigured tab. 64 and 65. That now before us is most allied to the aranifera, from which it differs in having the 3 larger petals reddish, but more especially in the very different form of the





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[65]

OPHRYS aranifera.

Spider Orchis.

GTNANDRIA Diendria

GES. CHAR. Nestary confishing of a lip only, slightly carrinated at the back.

SPEC. CHAR. Bulbs roundish. Stem leasy. Lip roundish, convex, hairy above, in three divisions, turned in at the margin, and notched at the tip.

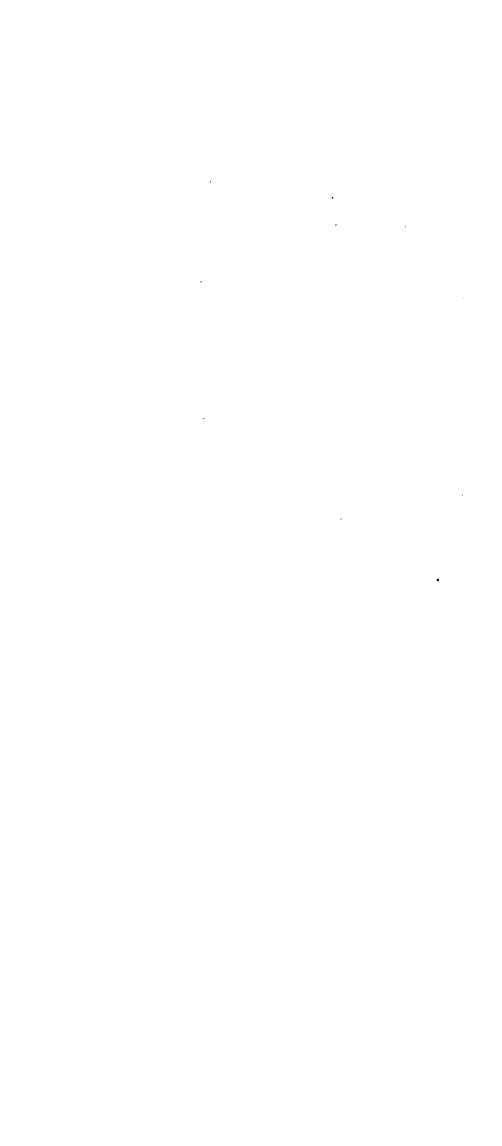
SYN. Ophrys aranifera. Huds. Fl. An. 392. With Bot. Arr. 994. Relb. Cant. 340.

Orchis five Tefticulus sphegodes hirsuto flore. Raii Sym. 380.

THIS, with us the most uncommon of the insect-bearing Orchises, was gathered near Bury by Sir T. G. Cullum, Bart. as well as by W. Matthew, Esq. and we are obliged to both these gentlemen for fine specimens of it, slowering in April. Mr. Jacob Rayer, of Bolt-court, Fleet-street, to whom







$[7^2]$

MALAXIS paludosa.

Marsh Tway-blade.

GYNANDRIA Diandria.

GEN. CHAR. Neclary of one hollow, heart-shaped, erect leaf, embracing the organs of fructification. Corolla reversed.

SPEC. CHAR. Stalk pentagonal. Leaves feveral, spatulate, rough at the tip.

Syn. Malaxis paludofa. Swartz, Stockholm Trans. for 1789, p. 127. t. 6. f. 2.

Ophrys paludosa. Linn. Sp. Pl. 1341. Huds. Fl. An. 389. With. Bot. Arr. 989. Relb. Cant. 337. Rose's Elem. (App.) 450. t. 2. f. 3.

Orchis minima bulbosa. Raii Syn. 378.

A NATIVE of turfy bogs on the north fide of Norwich, and in some other parts of England; communicated from the neighbourhood of Potton, Bedfordshire, by the Rev. Mr. Charles Abbot of Bedford. It flowers in July, and is the smallest British plant of this tribe.

However averse to unnecessary innovation, it is impossible to refuse our assent to the establishment of this genus as characterised by Dr. Swartz; happy would it be if every genus in Orchideæ were as clear. Yet it appears that able botanist has not paid due attention to the corolla being reversed (refusive as the odd petal (of the three external opes) being the





[269]

SERAPIAS latifolia.

Broad-leaved Helleborine.

GYNANDRIA Diandria.

GEN. CHAR. Nectary ovate, gibbous, with an ovate lip.

Spec. Char. Roots creeping. Leaves ovate, embracing the stem. Flowers drooping. Lip entire, pointed, shorter than the petals.

SYN. Scrapias latifolia. Linn. Syft. Vcg. ed. 14. 814. Hudf. Fl. An. 393. With. Bot. Arr. 997. Lightf. Scot. 526. Relb. Cant. 340. Sibth. Oxon. 13.

S. Helleborine a. Linn. Sp. Pl. 1344. Helleborine latifolia montana. Raii Syn. 383.

NOT uncommon in shady woods, especially in the mountainous parts of this kingdom; we are obliged to the Countess of Aylsford for this specimen. It flowers in July or August.

Root perennial, creeping horizontally, throwing out many long fibres, fleshy, but by no means bulbous, thriving in the moist black vegetable mould of damp woods. Stem simple,



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[270]

SERAPIAS palustris. Marsh Helleborine.

GYNANDRIA Diandria.

GEN. CHAR. Neclary ovate, gibbous, with an ovate lip.

Spec. Char. Roots creeping. Leaves lanceolate, cmbracing the stem. Flowers drooping. Lip crenate, obtuse, equal to the petals.

SYN. Scrapias palustris. Lightf. Fl. Scot. 527.

S. latifolia y, palustris. Huds. Fl. An. 393.

S. longifolia. Linn. Syft. Veg. ed. 14. 815. With. Bot. Arr. 998. Relb. Cant. 341. Sibtb. Oxon. 14. Helleborine palustris nostras. Raii Syn. 384.

IN swampy meadows and on watery commons in various parts of England, not very unfrequent; we doubt its being to be met with in any other kind of situation. The flowers are in perfection about July or August.

Root creeping, fleshy, perennial. Stem erect, simple, 12 or 18 inches high, lower leaves ovate, often purple at the back; upper ones lanceolate, erect; all embracing the stem, and ribbed. Spike erect. Bractez lanceolate, about equal to the germen. Flowers sewer and much larger than in the preceding species, drooping, with downy, purple flower-stalks and







[:-:]

SERAPIAS gradifica. Tota Environa.

GYNANDEM Dames

GEN. CHAR. Nedary orate, glibboth with an orate lip.

SPEC. CHAR. Rost creeping. Leaves elliptico-lanceolate. Bractea longer than the germen. Flowers ered. Lip obtute, rather faorter than the petals.

STN. Serarias grandifiora. Light. Fi. Sect. 528. With Bot. Arr. 1000. Ruh. Com. 341. Subth. Ozon. 14.

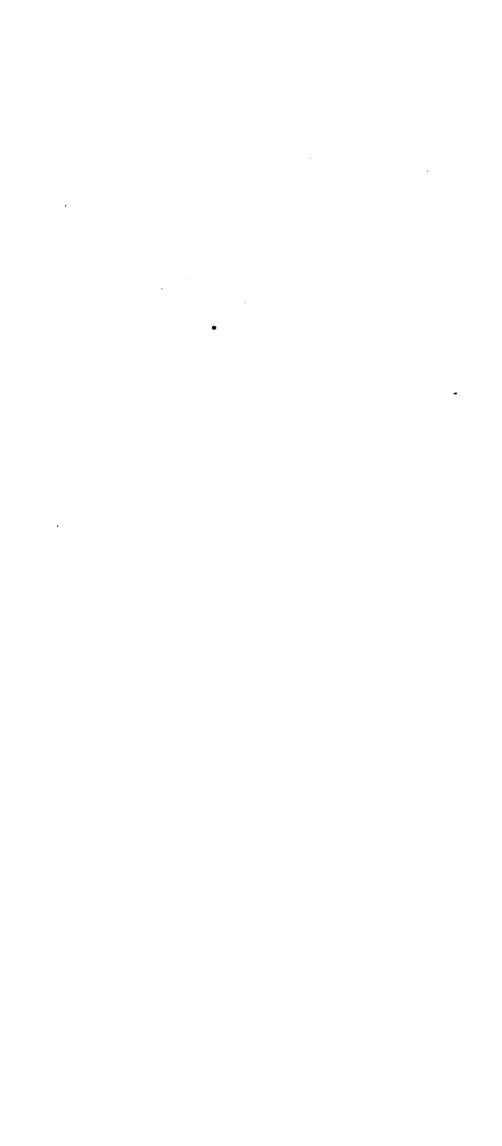
S. longifolia. Hid. Fi. An. 393. Helleborine flore albo. Raii Syn. 383.

COMMUNICATED by the Rev. Mr. Baker, F. L. S. from Glaucestershire. It occurs in woods and thickets, chiefly in the midland counties, very rarely in Scotland, flowering in June.

Root long and creeping, perennial. Stem about a foot high. Leaves ribbed, various in breadth, but generally rather elliptical than lanceolate, their base half embracing the stem. Spike creek, of from three to eight large white, nearly upright slowers. Lower bracker like the leaves in form and size; the others gradually less, but none shorter than the germen,







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Normal Feline

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Gen Cara. Fatter winn ginnus, with an orate lip.

Seed. Casa. Lier filmus. Leaves food-shaped. Eradiez much filmer man the germen. Flowers erad. Ly minus. hasf as ling as the petals.

Ses. Sempas militia. I.m. Ed. Fig. 22. 14. 815, (François multidi). Wak 22. F. Dan t. 506.

- S. Articci-lim. Lan. Sugal 424
- S. lengthing. His in the

Helleherine fills prainings angulis acuts. Rail

FOUND on the top of Aberiy hill, Wesceelershire, and also in Wire forest in the time county, by Walter Michael Mesely, Est, of Glashampton, to whom we are obliged for wild specimens of this rare plant, which completes our history



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[437] SERAPIAS rubra.

Purple Helleborine.

GYNANDRIA Diandria.

GEN. CHAR. Nectary ovate, gibbous, with an ovate lip. Spec. CHAR. Root creeping. Leaves lanceolate. Root creeping. Leaves lanceolate. Bracteæ longer than the germen. Flowers erect. Lip acute, marked with undulating lines.

SYN. Serapias rubra. Linn. Syst. Veg. ed. 14. 816.

With. 42. Fl. Dan. t. 345. S. longifolia 8. Huds. 394.

S. grandiflora 8. With. ed. 2. 1001.

Helleborine montana angustifolia purpurascens. Raii Syn. 384.

Epipactis N. 1299. Hall. Hist. v. 2. 156. t. 42.

DILLENIUS, in his edition of Ray's Synopsis, inserts this as a native of Ireland, on the authority of Plukenet; Hudson says it grows in the north part of Yorkshire; but Dr. Withering, who in his third edition has first rightly explained the species of Serapias, mentions the rubra as a very doubtful native. We are enabled to decide the question by means of this wild specimen, gathered last June on a steep stony bank, sloping to the south, on Hampton Common, Gloucestershire, by Mrs. Smith of Barnham House in that neighbourhood, who observed about a dozen of the plants within a small space. In the following month we received specimens gathered in another part of the same county by the Rev. Mr. Baker.

This is unquestionably a most distinct species, though con-

founded by Hudson with grandiflora (see our t. 271.) and ensifolia; nor were these plants ever well understood by Linneus.

The root creeps horizontally, producing many long simple fibres. Stem perfectly erect, a foot high, leafy, downy; compressed, and with fewer leaves in the upper part. Leaves a little spreading in various directions, lanceolate, pointed, ribbed. Spike of from three to six upright purple flowers. Bracteæ lanceolate; the lowermost sometimes as long as its corresponding flower, the rest but a little longer than the germen, sometimes rather shorter. Germen slender, downy. Petals all directed upwards, ovate, very much pointed. Nectary with a short blunt projection behind, its lip about equal to the petals in length, white tipped with purple, lobed on each side at the base, marked with yellow elevated undulating lines, and terminating in a sharp point; by which marks it is certainly distinguished, as Haller observes, from S. grandiflora.





[1] CYPRIPEDIUM Calceolus.

Ladies Slipper.

GTNANDRIA Diendrie.

GENERIC CHARACTER. Nettarium large, inflated, and hollow.

Specific Char. Roots fibrous. Leaves ovato-lanceolate, growing on the stem. Flower with four petals. Syn. Cypripedium Calceolus. Linn. Sp. Pl. 1346. Huds. Flo. An. 392. Withering's Bot. Arr. 1001. Calceolus Mariæ. Raii Syn. 385.

IF the beauty or scarcity of a plant, or the singularity of its structure, entitle it to our notice, the Ladies Slipper certainly merits the sirst place in a work on British plants. It may indeed be reckoned the queen of all the European Orchideze. Accordingly it has not only been admired and cherished by the scientistic







f 398]

ARISTOLOCHIA Clematitis.

Common Birthwort.

GYNANDRIA Hexandria.

GEN. CHAR. Stigmas 6. Cal. none. Corolla of one tongue-shaped, entire petal. Capsule inferior, of 6 cells.

Spec. Char. Leaves heart-shaped. Stem erect. Flowers in axillary clusters.

Syn. Aristolochia Clematitis. Linn. Sp. Pl. 1364. Huds. Fl. An. 394. With. Bot. Arr. 1003. ed. 3. 360. Relh. Cant. 342. Sibth. Ox. 112. Dicks. Dr. Pl. 14.

RAY appears to have considered this plant as too doubtful a native to be admitted into his Synopsis, but he could not be uninformed of its being found, apparently in a state of nature, in many parts of England. It is generally observed about the ruins of nunneries, as at Godstow Oxfordshire, and Carrow Abbey near Norwich, from which last place our specimen was sent by the Rev. Mr. Sutton. The several kinds of Aristolochia were formerly a principal remedy for some female disorders.

The root of this species is long, slender, creeping, and peren-

The root of this species is long, slender, creeping, and perennial. Stems many, nearly 2 feet high, erect, round, striated, smooth, a little zigzag. Leaves alternate, on footstalks, without stipulæ, heart-shaped, entire, smooth, broad, with many strong veins, the lateral nerves branching in a pedate manner. Flowers 5 or 6 in a cluster from the bosom of each leaf, on shortish stalks, erect, pale yellow, appearing from July to September, of a very singular form, consisting of one petal globose at the base with 6 furrows, then funnel-shaped and terminating in a tongue-like figure. In the bottom of this petal stand the stamina and styles, forming a globular body all together, but the germen is below the corolla. The very short thick stamina do really grow out of the style (which is likewise short and thick), so that this genus is truly gynandrous, and we see no reason for abolishing that class merely because some plants have been erroneously referred to it. The style appears to us simple, with 6 stigmas, so that we have ventured in that respect to alter the Linnæan character. Like other vegetables that increase much by root, it rarely ripens its fruit.



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[1844]

ZANNICHELLIA palustris.

Horned Pondweed.

MONOECIA Monandria.

GEN. CHAR. Male, Cal. none. Cor. none. Stam. Filament solitary, elongated, erect: anther ovate, erect. Female, Cal. of 1 leaf. Cor. none. Germans 4 or more. Seeds as many, stalked. Stigmas peltate. Spec. Char. Anther of four cells. Stigmas entire.

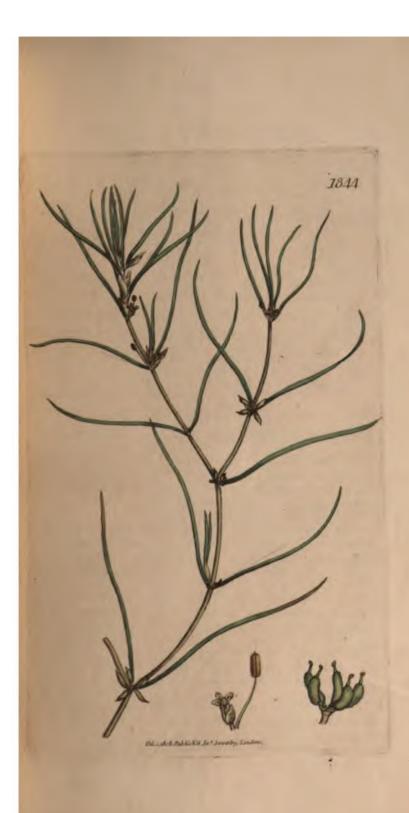
SYN. Zannichellia palustris. Linn. Sp. Pl. 1375. Sm. Fl. Brit. 955. Huds. 397. With. 6. Hull. 202. Relh. 358. Sibth. 3.

Aponogeton aquaticum graminifolium, staminibus singularibus. Raii Syn. 135.

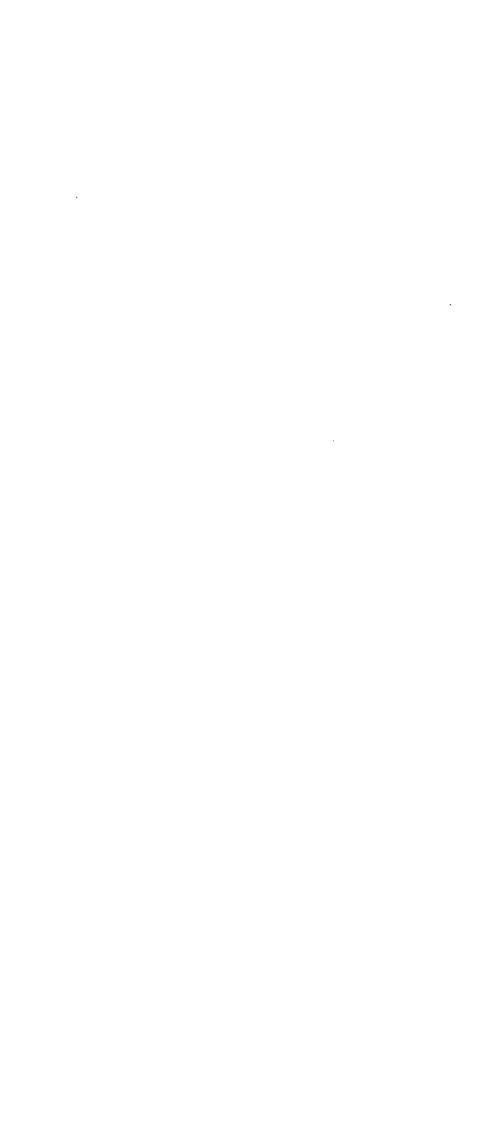
MICHELI named this genus in i. nour of a Venetian apothecary, whom he greatly celebrates for his knowledge and zeal with regard to natural history, especially marine plants and animals. He describes two species, one of which only has been met with in Britain.

This is an annual plant, occurring in ponds and ditches, as









[1455]

TYPHA latifolia.

Great Cat's-tail or Reed-mace.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin cylindrical, hairy. Antheræ about 3 together on each filament.

Female, Cathin cylindrical. Seed 1, on a feathered stalk.

Spec. Char. Leaves somewhat sword-shaped. Male and female catkins close together.

Syn. Typha latifolia. Linn. Sp. Pl. 1377. Sm. Fl. Brit. 959. Huds. 400. With. 111. Hull. 203. Relh. 360. Sibth. 25. Abbot. 199.

T. major. Curt. Lond. fasc. 3. t. 61. Typha. Raii Syn. 436.

FREQUENT in pools, ditches and about the margins of slow streams, growing in the water, and familiar to the most casual observer by its tall stems and great mace-like brown spikes, which flower in July. Some persons mistake it for the Bullrush, t. 666.

The creeping perennial roots run deep into the mud, and







[1456]

TYPHA angustifolia.

Lesser Cat's-tail or Reed-mace.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin cylindrical, hairy. Antheræ about 3 together on each filament.

Female, Cathin cylindrical. Seed 1, on a feathered

Female, Cathin cylindrical. Seed 1, on a feathered stalk.

Spec. Char. Leaves flattish, semicylindrical beneath.

Catkins a little distant; leafless.

Syn. Typha angustifolia. Linn. Sp. Pl. 1377. Sm. Fl. Brit. 959. Huds. 400. With. 111. Hull. 203. Relh. 360. Abbot. 199. Fl. Dan. t. 815.

T. minor. Curt. Lond. fasc. 3. t. 62.

T. palustris media. Raii Syn. 436.

MUCH more rare than the last. Curtis found it in the middle of Woolwich Common. We have observed it in claypits in several parts of Norfolk and Suffolk, but scarcely in any other county. It flowers in July.







1457]

TYPHA minor. Dwarf Cat's-tail or Reed-mace.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin cylindrical, hairy. Antheræ about 3 together on each filament.

Female, Cathin cylindrical. Seed 1, on a feathered stałk.

SPEC. CHAR. Leaves linear, convex beneath. Catkins a little distant; the male leafy; female short and turgid.

SYN. Typha minor. Sm. Fl. Brit. 960. Bauh. Hist. v. 2. 540. Lob. Ic. 81.

T. angustifolia β. Linn. Sp. Pl. 1378. H
T. palustris minor. Dill. in Raii Syn. 436. Huds. 400.

T. palustris minima, duplici clavâ. Moris. Sect. 8. t. 13. f. 3.

MR. DANDRIDGE is said by Dillemius to have found this on Hounslow heath; and as the plant was well known and distinguished by botanists of that time, though confounded by Linnseus with T. angustifolia, we presume there could be no mistake about it. We have never seen any other than Genevan specimens; but having lately obtained more perfect ones than are described in the Fl. Brit. or any other work, those hitherto figured or mentioned having been defective in the





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[744]

SPARGANIUM ramofum.

Branched Bur-reed.

MONOECIA Triandria.

GEN. CHAR. Male, Cal. 3-leaved. Cor. none. Female, Cal. 3-leaved. Cor. none. Drupa dry, with 1 feed.

Spec. Char. Leaves triangular at the base, their sides concave. Common slower-stalk branched. Stigma linear.

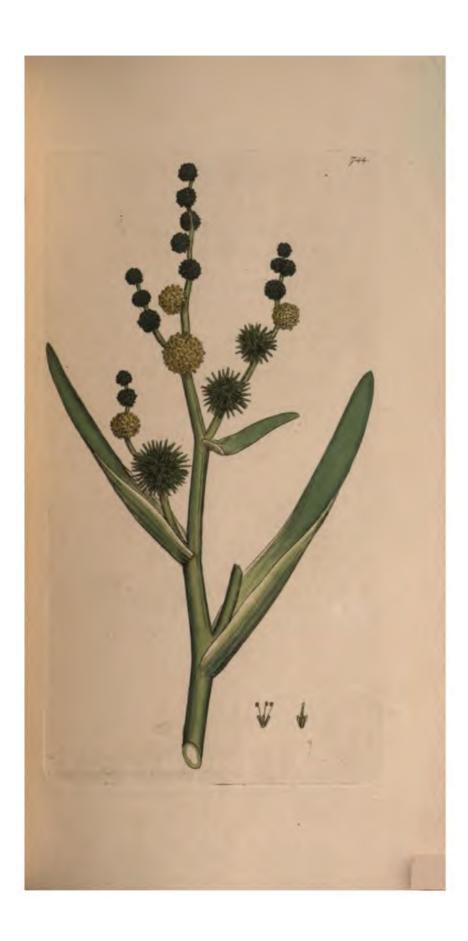
Syn. Sparganium ramosum. Sm. Fl. Brit. 961. Huds. 401. With. 112. Hull. 203. Sibth. 25. Curt. Lond. fasc. 5. t. 66. Raii Syn. 437.

S. erectum. Linn. Sp. Pl. 1378. Relb. 348. Abbot. 200.

COMMON in ditches and about the banks of rivers, flowering in July and August.

The root is perennial and creeping. Stem upright, about three feet high, round, leafy, smooth, divided at the top into many alternate, slightly zigzag, flowering-branches. Radical leaves sword-shaped, erect, smooth, entire; at their base trian-







[745]

SPARGANIUM simplex.

Unbranched Upright Bur-reed.

MONOECIA Triandria.

- GEN. CHAR. Male, Cal. 3-leaved. Cor. none. Female, Cal. 3-leaved. Cor. none. Drupa dry, with 1 feed.
- Spec. Char. Leaves triangular at their base, their sides flat. Common flower-stalk simple. Stigma linear.
- SYN. Sparganium simplex. Sm. Fl. Brit. 962. Hudf. 401. With. 112. Hull. 203. Sibth. 25. Abbot. 200. Curt. Lond. fasc. 5. t. 67. Dicks. H. Sicc. fasc. 6. 7.
 - S. erectum β. Linn. Sp. Pl. 1378.
 - S. non ramosum. Raii Syn. 437.

NOT very rare in pools and ditches, particularly where the foil is gravelly, flowering in July and August.

This is smaller than the more common S. ramosum, of which it has been considered as a variety, but certainly without reason. Mr. Curtis has well remarked that the sides of the triangular bases of the radical leaves in this are flat or level, not



Γ ²73]

SPARGANIUM natans.

Floating Bur-reed.

MONŒCIA Triandria.

GEN. CHAR. Male, Cal. 3-leaved. Cor. none. Female, Cal. 3-leaved. Cor. none. Drupa dry, with I feed.

Spec. Char. Leaves drooping, flat. Heads of flowers in a fimple spike, most of them accompanied by leaves. Style not longer than the germen.

With Bot. Arr. 1025. Fl. Dan. t. 260.
S. fimplex, B. Hudf. Fl. An. 401.

S. minimum. Raii Syn. 437.

SENT by the Rev. Mr. Hemsted from Burwell fens, Cambridgeshire. It prefers a muddy or clay soil, slowering in July—Root perennial, creeping, with long fibres, running deep into the muddy bottoms of ditches or slow streams. Stems-ascending, round, leasy. Leaves linear, narrow, thin and almost pellucid, slat; sheathing and a little channelled towards the base, but without any degree of carina or mid-rib; the lowermost long and floating, the rest gradually shorter. Flowers from the bosons of the upper leaves, in 2 or 4 solitary Flowers from the bosoms of the upper leaves, in 3 or 4 solitary little round heads: we can by no means comply with Linnæus in calling them amenta, with the definition and nature of which they do not agree; they are really capitula. The





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Introduction

[543]

CAREX dioica.

Small Carex.

MONCECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. inflated, permanent. Seed triangular, invested with the corolla.

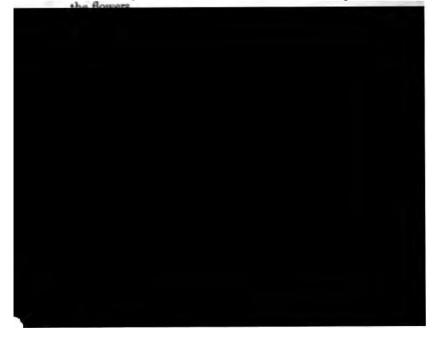
Spec. Char. Spikes simple, directions. Corolla ribbed, finely serrated.

SYN. Carex dioica. Linn. Sp. Pl. 1379. Hudf. 401. With. 86. Relb. 349. Sibth. 26. Gooden. Tr. of Linn. Soc. v. 2. 139.

Gramen cyperoides minimum, Ranunculi capitulo rotundo. Raii Syn. 425.

g. G. cyperoides minus, Ranunculi capitulo longiore. Raii Syn. 425.

FOUND in spongy bogs not unfrequently, though it may easily be overlooked. It slowers in May, ripening its seed in June or July, when its round heads are more conspicuous than





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CAREX Davalliana.

Prickly Separate-headed Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spikes simple, dioecious. Fruit lanceolate, triangular, ribbed, deflexed; its angles rough

towards the summit.

SYN. Carex Davalliana. Sm. Tr. of L. Soc. v. 5. 266.
Fl. Brit. 964. Hull. ed. 2. 268. Willd. Sp. Pl. v. 4. 208.

C. dioica B. Sm. Fl. Brit. 964.

C. dioica. Huds. 401.

Gramen cyperoides minus, ranunculi capitulo longiore. Raii Syn. 425.

Cyperoides parvum &c. Mich. Gen. 56. n. 1. t. 32.

FIRST made known to us, as a British plant, by Professor J. Beatie, who found it in Mearns-shire. Mr. Groult next gathered it on Landsdown near Bath, from whence Mr. E. Forster communicated our specimens, the ripe fruit only being added from one of Mr. Davall's own. Mr. Forster informs us it grows on the slope of a hill on which there is a clump of firs, about a mile and a quarter from Bath. We are also greatly obliged to him for suggesting Ray's and Hudson's synonyms, in consequence of which the long-unascertained C. capitata of the latter, certainly not that of Linnæus, turns out the real dioica, t. 543. Mr. Templeton has found the Davalliana near Belfast. It is much the most common of the two in Switzerland. We cannot but wonder that the observing Mr. Wahlenberg still esteems them but varieties of each other.

The root of this, as Willdenow well observes, is tufted, not creeping; stem rough, not smooth. The spikes are much longer than in dioica, and the long, reflexed, strongly ribbed seed-covers, roughish only at the angles near the top, not ser-

rated, are abundantly characteristic.





[1051]

CAREX pulicaris.

Flea Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of I fcale. Cor. none.— Female, Catkin imbricated. Cal. of I fcale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spike fimple, androgynous; the male flowers uppermoft. Fruit spreading and reflexed, tapering at both ends. Stigmas two.

SYN. Carex pulicaris. Linn. Sp. Pl. 1380. Gooden. Tr. of Linn. Soc. v. 2. 142. Sm. Fl. Brit. 965. Huds. 402. With. 86. Hull. 204. Relb. 349. Sibth. 26. Abbot. 203.

Gramen cyperoides minimum, seminibus deorsum reflexis pulicisormibus. Raii Syn. 424.

THIS little Carex grows in spongy or muddy boggy places, slowering early in June, when it might be overlooked for the male plant of *C. dioica*, and in that state it is sigured in *Fl. Dan. t.* 166. When in a week or two the fruit begins to ripen, all the semale slowers spread widely, and at length become reflexed, the dark brown highly polished seed-cases giving the plant a singular and characteristic aspect, which has



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Aug to 180 - Intelliged by July Somethy, London.



[2041]

CAREX pauciflora. Few-flowered Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spike simple, of few flowers, the upper one male. Fruit spreading, awlshaped. Stigmas

three.

SYN. Carex pauciflora. Lightf. 543. t. 6. f. 2. Sm. Fl.
 Brit. 966. Gooden. Tr. of L. Soc. v. 2. 143.
 With. 87. Hull. 204. Dicks. H. Sicc. fasc. 1.
 16. Winch Guide, v. 1. 83.

C. patula. Huds. 402 and 657.

C. Leucoglochin. Linn. Suppl. 413. Ehrh. Phyt. n. 8.

THIS rate little Carex had been found in no other part of Britain than Scotland, till Mr. Winch met with it in June 1803 in Northumberland. It grows on peat bogs, flowering early in that month.

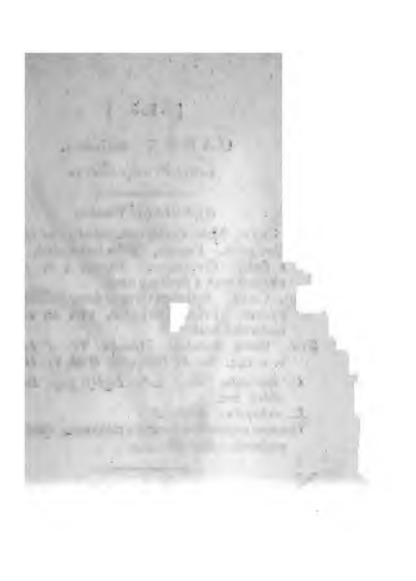
Root creeping, scaly. Stems from 3 to 5 inches high, erect, bowed at the base, smooth, obscurely triangular. Leaves about 2 embracing the base of each stem, channelled, smooth, much shorter than the stems. Spike solitary, creet, of from 4 to 6 flowers, of which the upper one only is a male, and upright; the rest are females, a little spreading, and at length reflexed. Scales lanceolate, of a pale rust-colour. Fruit of the same hue, tapering, somewhat triangular, furrowed. Stigmas three; Lightfoot says they are occasionally but two.

We prefer the original name of Lightfoot, to the hard Greek one, foisted into the Supplementum Plantarum by Ehrhart, as he superintended the press, without Linnæus's knowledge.

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[806]

CAREX stellulata.

Little Prickly Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Spikelets three or four, remote, androgynous. Fruit divaricated, with an elongated undivided beak.

Syn. Carex stellulata. Gooden. Tr. of Linn. Soc. v. 2. 144. Sm. Fl. Brit. 966. With 87. Hull. 204.

C. muricata. Huds. 406. Lights. 549. Relb. 350. Abbot. 202.

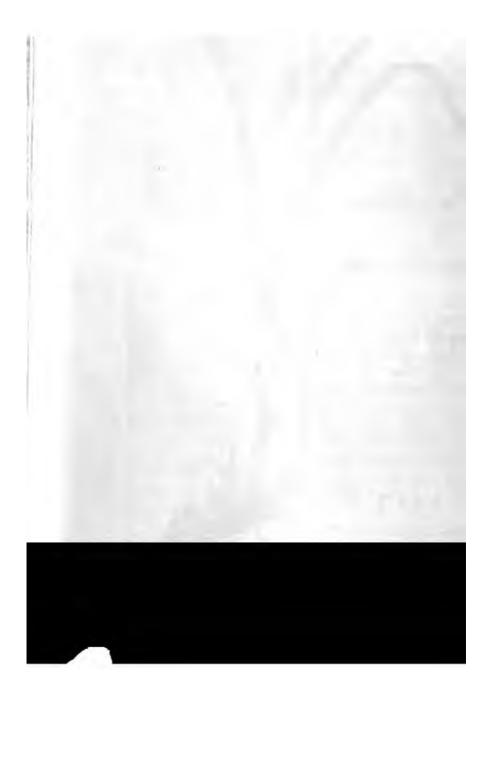
C. echinata. Sibtb. 28.

Gramen cyperoides spicatum minimum, spica divulsi, aculeata. Raii Syn. 424.

NOT unfrequent in marshy, rather barren, ground, flowering in May and June.

Root fibrous; perennial, as usual with the Carex tribe. Stem from 6 to 12 inches high, erect, straight, simple, naked





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CAREX ovalis.

Oval-spiked, or Naked Carex.

MONŒCIA Triandria.

Male, Cathin imbricated. Cal. of one GEN. CHAR. scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. inflated, permanent. Seed triangular, invested with the corolla.

Spec. Char. Spikelets about six, oval, close together, alternate. Scales lanceolate, equal to the capsule.

Syn. Carex ovalis. Gooden. Tr. of Linn. Soc. v. 2. 148. C. leporina. Huds. Fl. An. 404. With. Bot. Arr. 1029.

Relh. Cant. Suppl. 1. 15. Sibth. Ox. 27.

Gramen cyperoides, spica e pluribus spicis mollibus composita. Raii Syn. 422.

GATHERED in Kensington Gardens, flowering in June. It

is very common in wet marshy pastures.

Root perennial, creeping? Stem, erect, hollow, about a foot high, with 3 sharp rough angles. Leaves sheathing the lower part of the stem, and rising about equal to it in height, dark green, narrow, roughish on the edges and nerve, but less so than in most other species. General spike terminal, erect, composed of 5 or 6 upright oval spikelets, the largest of which is terminal. Bracteæ solitary, lanceolate, at the base of each spikelet, the lowermost longer than the rest, and ending in a leafy point. In each little spike a few of the lower flowers are male, the rest female. Scales ovato-lanceolate, acute, equal to the corolla. Filaments longer than the scales. Style tumid to the corolla. Filaments longer than the scales. Style tumid at the base. Stigmas but two. Permanent corolla slightly notched, convex on one side, margin rough.

We beg leave to correct an inaccuracy in the concluding paragraph of the description of Carex Pseudo-Cyperus, t. 242. We have expressed ourselves as if Dr. Goodenough had called the corolla a capsule, in opposition to Linnæus; whereas the truth is, Linnæus carelessly uses nectarium and capsula indifferently for the same part, and our excellent friend, to whose labours in this genus the British botanist is so much indebted, takes the latter term merely as the least exceptionable. The part in question however is totally distinct from the germen and fruit, merely enveloping the seed, and is really a perma-

nent corolla.



[832]

CAREX remota.

Remote Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale.

Cor. none. Female, Catkin imbricated. Cal. of
1 scale. Cor. none. Stigmas 2 or 3. Seed clothed
with a swelling tunic.

Spec. Char. Spikelets folitary, remote, androgynous, nearly feffile. Bracteæ very long, furmounting the stem. Seed-tunic almost entire.

SYN. Carex remota. Linn. Sp. Pl. 1383. Sm. Fl. Brit. 959. Gooden. Tr. of Linn. Soc. v. 2. 150. Hudf. 407. With. 88. Hull. 205. Relb. 351. Sibth. 28. Abbot. 203.

C. axillaris. Linn. Sp. Pl. 1382.

Gramen cyperoides angustifolium, spicis parvis selfilibus in soliorum alis. Raii Syn. 424.

A NATIVE of moist groves, and banks of ditches in shady situations, not unfrequent, slowering in May and June.

Root sibrous, sperennial. Plant slender and weak, of a pale whitish green. Stem about a foot high, triangular, and



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CAREX axillaris. Axillary Clustered Carex.

MONOECIA Triandria.

- GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale.

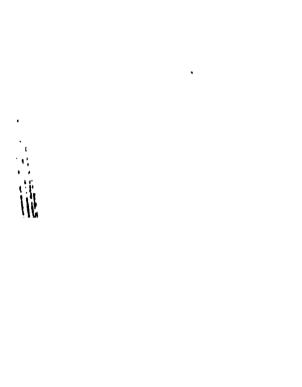
 Cor. none. Female, Cathin imbricated. Cal.

 1 scale. Cor. none. Stigmas 2 or 3. Seed clothewith a swelling tunic.
- SPEC. CHAR. Spikelets remote, sessile, androgynous the lowermost compound. Bractez very longer Seed-tunic cloven at the point.
- SYN. Carex axillaris. Gooden. Tr. of Linn. Soc. v. 2.
 151. t. 19. f. 1. Sm. Fl. Brit. 970. With. 859.
 Hall. 205.

NIR. CURTIS is faid to have first discovered this species of Carex near Patner. Mr. Woodward sent our specimen fraction. Northis, where it is found about wet disch baselies on a first of strong clay, showering in the middle of June.

This has productly been often neglected as a luxuriant variable of C. remain, 4. Spt.. It differs from that species in being manner.





027 I CAREX DESIGN Carrol Cons.

STREET, ALLEUTON Crans, Male, Cathe turbed and Call of Visc. mans. Pamula, Carles Imbraschik, Ca trale. Cor. pone. Willy out a er ga

in it pulled a Bid buc. Cann. Epilorer cluthered into a hard, . grant the bear tower tender beatter brogons; Styntombili, Guesle L.

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the Halford Willy, House

[927]

CAREX incurva.

Curved Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale— cor. none. Female, Catkin imbricated. Cal. of I scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spikelets clustered into a head, androgynous; the lower flowers female. Bracteze membranous. Stem roundish, smooth. Leaves channelled.

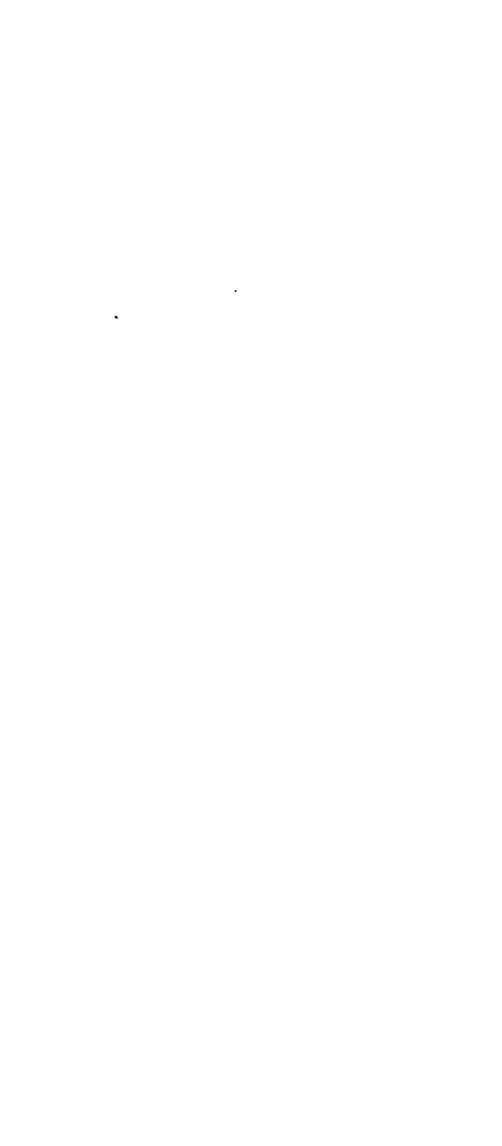
Syn. Carex incurva. Lightf. 544. t. 24. f. 1. Sm. Fl. Brit. 971. Gooden. Tr. of Linn. Soc. v. 2. 152. Hudf. 650. With. 89. Hull. 205.

DR. HOPE received specimens of this Carex from the "deep loose fand at the mouth of the water (or river) of Naver, and from near Skelherry in Dunrosness, in Shetland," whence it found a place in the Flora Scotica. Professor Beattie has favoured us with specimens from near Aberdeen. It flowers in July.

The root creens. The stems are mostly curved a or



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[928]

CAREX arenaria.

Sea Carex.

MONOECIA Triandria.

SPEC. CHAR. Spikelets crowded, spiked, almost monoicous. Bracteæ membranous; the lower ones leafy. Stem triangular. Leaves flat.

Syn. Carex arenaria. Linn. Sp. Pl. 1381. Sm. Fl.

Brit. 971. Gooden. Tr. of Linn. Soc. v. 2. 153.

Hudf. 405. With 90. t. 20. Hull. 205. Dicks.

H. Sicc. fasc. 5. 14.

Gramini cyperoidi ex monte Ballon simile humilius, in maritimis et arenosis nascens. Raii Syn. 423.

VERY common in the loofe fand of the fea shore, where it may be found in flower in June and July.

The root creeps horizontally to a great extent, fixing itself by numerous fibres, and throwing up numerous fiems, about a foot high, erect, except when they are overborne by the sand, naked, with 3 sharp angles, roughest in the upper part.







CAREX intermedia. Soft Brown Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spikelets crowded into a common spike; the lower and upper ones female; the intermediate ones male. Stem acutely triangular, erect.

SYN. Carex intermedia. Gooden. Tr. of Linn. Soc. v. 2. 154. Sm. Fl. Brit. 972. With. 91. Hull. 205. Dichs. H. Sicc. fasc. 7. 15.

C. disticha. Huds. 403. Relh. 364. Sibth. 26. Abbot. 202.

Gramini cyperoidi ex monte Ballon simile, spica totali e pluribus spicis composita. Raii Syn. 423.

NOT unfrequent in marshy meadows and other watery place

flowering in May and June.

Root creeping, running deep into the ground. Stems up right, straight, 12 or 18 inches high, triangular, with very sharp, more or less unequal, angles, leafy at the bottom only Leaves few, nearly upright, shorter than the stem, acute, almost flat, a little rough at the edges and keel. Spike oblong bluntish, of a rusty brown, soft to the touch, but little compressed and by no means two-ranked, composed of numerous, crowded, ascending, ovate spikelets, of which 2 or 3 of the lowermost, and 1 or 2 of the uppermost, are almost entirely female, the rest nearly as completely, but not absolutely, male. In each spikelet the male flowers are always uppermost. Bractess ovato-lanceolate, membranous, brown, whiteedged; the lowest ending in a leafy point. Glumes ovate, acute, brown, with a pale nerve and white edge. Fruit ovate, acute, winged, rough-edged, with a cloven point. Stigmas 2, sometimes 3.







[1096]

CAREX divisa.

Bracteated Marsh Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 fcale. Cor. none. Female, Catkin imbricated. Cal. of 1 fcale. Cor. none. Stigmas 2 or Seed clothed with a fwelling tunic.

Seed clothed with a swelling tunic.

SPEC. CHAR. Spike once or twice compounde fpikelets all androgynous. Bractea leasy, ere Fruit not spreading. Root creeping.

SYN. Carex divisa. Huds. 405. Sm. Fl. Brit. 97
Gooden. Tr. of Linn. Soc. v. 2. 157. t. 19. f.

With. 92. Hull. 205.
Gramen cyperoides ex monte Ballon, spica divuler.
Raii Syn. 423.

THIS rare Carex was gathered at Kennington by M. Groult, a very accurate observer. It grows in marshy places of flowering in May and June, and is most likely to be found not very far from the sea, or at least within the reach of the fresh water tide.

Root perennial, creeping horizontally to a confiderable etent, black, strong and twisted. Stems upright, weak, about a foot high, naked, triangular, roughish in the upper par







[1097]

C A R E X muricata.

Greater Prickly Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spike oblong, once or twice compounded, prickly; fpikelets androgynous. Fruit divaricated, pointed, cloven. Root fibrous.

divaricated, pointed, cloven. Root fibrous.

SYN. Carex muricata. Linn. Sp. Pl. 1382. Sm. Fl.

Brit. 974. Gooden. Tr. of Linn. Soc. v. 2. 158.

With. 92. Hull. 205. Relb. 364.

With. 92. Hull. 205. Relb. 364. C. spicata. Huds. 405. Sibth. 27. Abbot. 201. Lights. 548.

Gramen cyperoides spicatum minus. Raii Syn. 424-

FREQUENT in rather moist pastures and shady places ...
flowering in May or June.

The root is perennial, fibrous, fearcely creeping. The herbage of a bright green. Stem upright and straight, 12 or sinches high, naked except at the base, triangular, the angler rough upwards. Leaves slattish, narrow, taller than the stemps









4.

CAREX divulsa.

Grey Carex.

MONŒCIA Triandria.

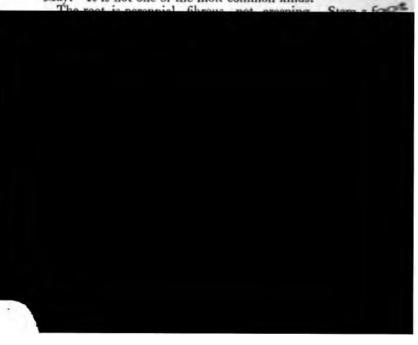
GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated. Cal. of one scale. Cor. inflated, permanent. Seed triangular, invested with the corolla.

c. CHAR. Spike twice compounded, elongated, often branching at the base; the lower spikelets Spec. Char. remote; the uppermost clustered. Seeds nearly crcct.

Carex divulsa. Gooden. Tr. Lim. Soc. v. 2. 160. Syn. With. 93. Hull. 205. Sibth. 28. Abbot. 203. C. canescens. Huds. 405. Relb. 351.
Gramen cyperoides spicatum minus, spica longa

divulsa seu interrupta. Raii Syn. 424.

CAREX divulsa, like most of its family, grows in most places, and more particularly in shady situations; hence its pale greyish-green hue, which has given rise to the English name. The specimen here delineated was found by the late. Mr. Rayer, between Rochester and Gravesend, flowering May. It is not one of the most common kinds.







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them at time put are or to edited a racky pure.

If the free long time is the second control of the second con

[307] CAREX vulpina.

Great Carex.

MONŒCIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of fcale. Cor. none. Female, Catkin imbrica Cal. of one scale. Cor. inflated, permanent. triangular, invested with the corolla.

SPEC. CHAR. Spike thrice compounded, comp obtufe. Male flowers in each spikelet above Fruit spreading. Angles of the female.

very sharp.
Carex vulpina. Linn. Sp. Pl. 1382. Hud
An. 404. With. Bot. Arr. 1030. Relb. Cant.
Gooden. Tr. of Linn. Soc. V. 2. SYN. Hud) Sibth. Ox. 27. Gooden. Tr. of Linn. Soc. V. 2. Leers Herborn. 196. t. 14. f. 5.

Gramen cyperoides palustre majus, spica compo

Raii Syn. 423.

THIS is found, rather less frequently than the last marshy places, banks of rivers, &c. and is one of the last as well as best understood British species. It slowers in early part of summer, but its brown spikes in a feeding may be found for some time afterwards.

Root perennial, fibrous, forming thick tufts. Stems merect, about 2 feet high, frout, very acutely triangular and ro fo as to cut the fingers of those who handle them incaution. Leaves sheathing the lower part with their whitish men nous base, long, deep green, very rough on the edges and n General spike of several alternate, rather remote, comp fpikelets, with a linear bractea to each. Little fpikelets if their male flowers above the female. Scales of the male flo ovate, acute, membranous; those of the female somewhar upt, with a longish rough point. Base of the style tu Stigmas two. Permanent corolla slightly notched. The above the lowest spikelet, as Dr. Goodenough observes, suc ly diminishes very much in thickness.

Leers's exquisite figures cannot be too much admired, th

perhaps he excels less in some of the Carices than in grasses. We mean only to commend his own original p Those of the 2d edition are vile copies, in which all according to the shandaring energy the blandaring energy.

the blundering engraver.













[1064]

CAREX pani culata. Great Panicled Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spike thrice compound, branched, panicled, pointed, interrupted. Fruit spreading, beaked. Stem sharply triangular.

SYN. Carex paniculata. Linn. Sp. Pl. 1383. Sm. Fl. Brit. 978. Gooden. Tr. of Linn. Soc. v. 2. 164. Huds. 403. With. 94. Hull. 206. Relb. 351. Sibth. 28. Abbot. 203.

Gramen cyperoides palustre elatius, spica longiore laxa. Raii Syn. 422.

NOT rare in fpongy bogs and watery shady places, where its large sibrous perennial roots form huge and sirm tusts, raised high above the original soil, and in time changing a rotten bog into a graffy, though coarse, meadow. The stems are a





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CIREX égian.

हिन्दुकार्य Carre.

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GATHERED WA

CAREX clandestina. Dwarf Silvery Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated Cal. of one scale. Cor. none. Stigmas 2 or 3 Seed clothed with a swelling tunic.

Spec. Char. Bracteas membranous, sheathing, scarcelleafy. Female spikes remote, of few flowers, inclosed in the sheaths. Leaves channelled.

Syn. Carex clandestina. Gooden. Tr. of L. Soc. v. 2. 167
Sm. Fl. Brit. 980. With. 96. Hull. 206. Willd
Sp. Pl. v. 4. 254. Schkuhr. Car. n. 67. t. K. 43.

Cyperoides montanum humile angustifolium, culmveluti folioso spicis obsesso. Scheuchz. Agr. 407 4. 10. f. 1.

GATHERED by Mr. E. Forster in April 1809 by the foot path leading down from Clifton to Bristol hot-wells, in very sunny spot. We have often observed it in similar part of the neighbouring St. Vincent's rocks, where it was fire discovered by Mr. Sole, nor do we know of its growing elsewhere in Britain.

This has very strong deep perennial roots, and flowers earlin spring, when its little silvery bracteas are easily seen amount the humble stalks and leaves. The whole plant while flowering is only an inch or two high, but the leaves soon grotaller, and are channelled, erect, narrow, very rough-edge. Spikes slender, with reddish silvery-edged glumes. Stigment, very long, separate to the bottom. Fruit obovate, slight triangular, finely downy when young, entire at the mouth. The male spikes are solitary; female 2 or 3. Sometimes are early female spike throws out a stalk bearing a later male one as in our specimen. As the fruit ripens, the stem and leaves become greatly lengthened, and the bracteas disappear.



Mar 1 1210 patheried by Paterty Landon



[2315]

CAREX pendula.

Great Pendulous Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of scale. Cor. none. Female, Catkin imbricate Cal. of 1 scale. Cor. none. Stigmas 2 or Seed clothed with a swelling tunic.

Spec. Char. Sheaths elongated, nearly equal to the flower-stalks. Spikes cylindrical, very long and drooping. Fruit ovate, acute, closely crowde-

drooping. Fruit ovate, acute, closely crowde-Syn. Carex pendula. Huds. 411. Sm. Ft. Brit. 98 Gooden. Tr. of Linn. Soc. v. 2. 168. With. 9 Hull. ed. 2. 271. Lightf. 564. Relh. 366. Sibt. 413. Abbot. 206. Curt. Lond. fasc. 3. t. 63. C. Agastachys. Linn. Suppl. 414. Ehrh. Phyt. n. 1

C. Agastachys. Linn. Suppl. 414. Ehrh. Phyt. n. 1: Gramen cyperoides, spicâ pendulâ longiore. Res Syn. 420.

A NATIVE of rather moist woods and hedges, which we have no where observed more frequently than within a mile or two of London to the north and west, flowering early in June. Its great size, and long, dense, curved, dependent spikes, composed of vastly more copious fruit than those of any other British Carex, well distinguish this species.

The root is fibrous, perennial. Stem from three to five of six feet high, erect, leafy, triangular, its edges rough near the top only. Leaves long and broad, harsh, rough at the edge and keel, of a full green, rather glaucous underneath. Stipula long, narrow and sheathing. Floral leaves with tubular sheaths, nearly as long as the flower-stalks, at least the lower ones. Spikes on shortish stalks, cylindrical, very long, from five to seven, all nearly entirely female, except the terminal one, which also sometimes bears female flowers at its extremity. The scales are rusty, with a pale keel. Anthers long, rusty. Fruit green, a little inflated, triangular, pointed, smooth. Stigmas three. Seed triangular, brown.



And the Control of th

[994]

CAREX strigosa.

Loofe Pendulous Carex.

MONOBCIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of I scale. Cor. none. Female, Catkin imbricated. Cal. of I scale. Cor. none. Stigmas 2 or Seed clothed with a swelling tunic.

SPEC. CHAR. Sheaths elongated, nearly equal to the flower-stalk. Spikes slender, loose, a little dropping. Fruit lanceolate, triangular, ribbed.

Syn. Carex strigosa. Huds. 411. Gooden. Tr. of
Linn. Soc. c. 2. 169. t. 20. f. 4. Sm. Fl. Brit. 98 2.
With. 96. Hull. 206. Sibtb. 32. Abbot. 2005.
Gramen cyperoides polystachyon majusculum lateifolium, spicis multis longis strigosis. Raii Syn. 4 # 9.

FEW botanites have feen this Carex in its native places of growth, vet it is to be found in woods or groves in ference parts of England, as Effex, Oxfordshire, and Bedfordshire; also in Hedenham wood, Norfolk, where Mr. Stone first distinctions of the control o



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[995]

CAREX fylvatica.

Pendulous Wood Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 fca le. Cor. none. Female, Catkin imbricated. Cal. of 1 fcale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths but half as long as the flow flalk. Spikes flender, a little loofe, drooping. Fruit ovate, triangular, beaked, without ribs.

SYN. Carex sylvatica. Huds. 411. Gooden. Tr. f. Linn. Soc. v. 2. 183. Sm. Fl. Brit. 983. With. 10 2-Hull. 207. Relb. 356. Sibth. 30. Abbot. 20 5-Dicks. H. Sicc. sasc. 9. 13.

Gramen cyperoides fylvarum, tenuiùs fpicatum. F. Syn. 419.

COMMON throughout Britain in woods or thickets, rate preferring a clay foil, and fituations that are wet in winters; flowering in May or June.

This agrees much in habit, stature and foliage with the with which therefore most botanists contrast it; but in fact C. fylvatica is naturally allied to C. vesicaria, Lavigata,



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C A R E X depauperata. Starved Wood Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of x scale. Car. none. Female, Cathin imbricated. Cal. of x scale. Car. none. Stigmas 2 or 3. Said clothed with a swelling tunic.

SPEC. CHAR. Sheaths much shorter than the flowerfialk. Female spikes distant, erect, of but sew

flowers. Fruit inflated, beaked.

SYN. Carex depauperata. Gooden. Tr. of Linn. Soc.
v. 2. 181. Sm. Fl. Brit. 984. With. 102.

Hall. 207.

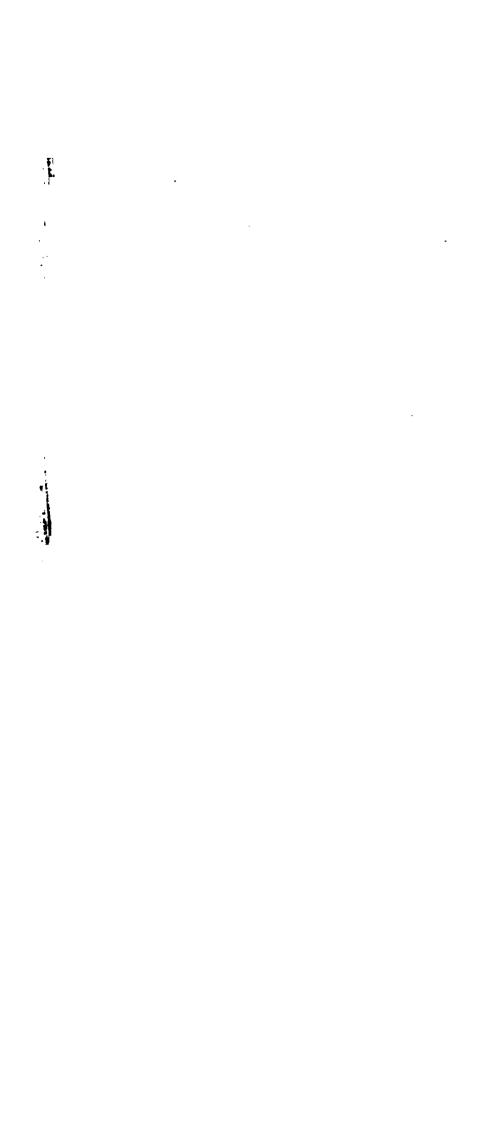
C. ventricota. Cart. Land. fusc. 6. t. 68.

C. triflora. Winden. Pirt. fasc. 1. 2. 1. 1. f. 2. Cyperoides vesscarium humile, locustis rarioribes.

Tearn. Infl. 530.

THE name of depurperate, first given to this Carex, and tained by Dr. Goodencogh, is so much more apt than vestigate, that we are afterimed Mr. Curtis should have change it for the latter, which is equally fuitable to many others the genus. See F. Lond.







6.

CAREX Mielichoferi.

Loose-spiked Rock Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of or scale. Cor. none. Female, Catkin imbricates Cal. of one scale. Cor. none. Stigmas 2 or Seed clothed with a swelling tunic.

CHAR. Sheaths not half the length of the flower-stalk. Female spikes three, distant, erect, leavened clouder.

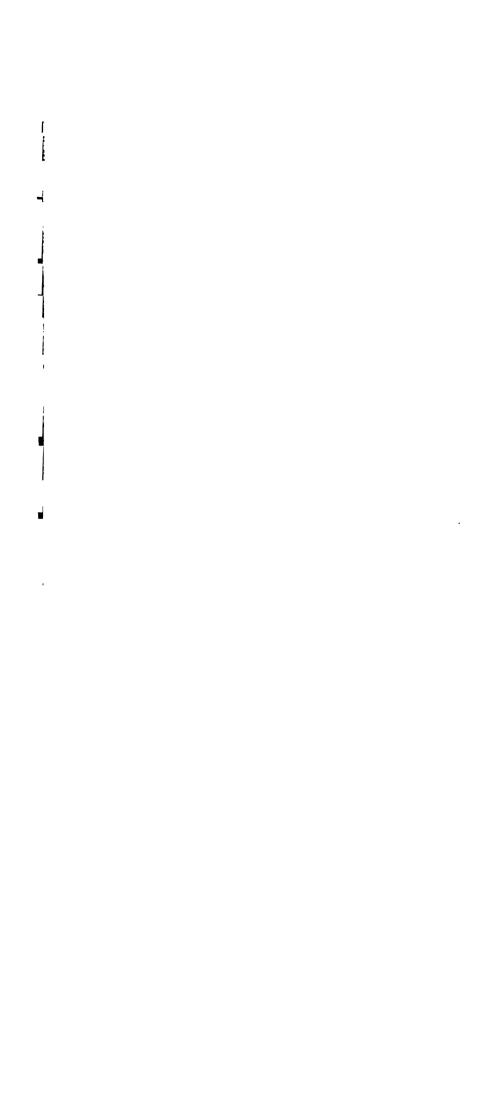
SPEC. CHAR. lax and slender. Fruit ovate, triangular, bluntly

cloven, twice the length of the obtuse scale. Syn. Carex Mielichoferi. "Schkuhr Caric. fig. 198." Willd. Sp. Pl. v. 4. 276.

FOUND by Mr. W. Borrer, in August 1810, on the rocky ledges of Craig Challoch, in Breadalbane. We rely, for Schkuhr's synonym, upon Willdenow, who says moreover this is C. alpina of Hoppe. It is entirely new to British botanists, and of all our Carices is most akin to depauperata, t. 1098, though abundantly distinct from that and every other in our Flora.

The root appears to be creeping or stoloniferous. Stems about a foot high, smooth, roundish. Leaves chiefly radical, flat, smooth, with acute stipulas. Bracteas nearly the length of the slender flowerstalks, erect, acute; their sheathing part about one third of the whole. Female spikes three, upright, lax, the lowermost consisting of about a dozen flowers, the uppermost of half as many; their glumes broad, rounded and bluntish, red-brown, with a broad yellowish rib. Fruit green, ovate, slender, incurved, triangular, three. roughish-edged, its orifice rounded and cloven. Male spike solitary, terminal, erect, oblong, bluntish, of numerous, obovate, red-brown scales, much longer than those of the females. Stamens three, whitish.





Name and Address of the Owner, where the Party of the Par The second second second second

CAREX capillaris. Capillary Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Common sheath but half the length of the flower-stalks. Female spikes ovate, rather loose,

drooping. Fruit sharp-pointed.

Syn. Carex capillaris. Linn. Sp. Pl. 1386. Sm. Fl. Brit. 985. Gooden. Tr. of L. Soc. v. 2. 180. Lightf. 557. Huds. 651. With. 101. Hull. 207. Dicks. H. Sicc. fasc. 9. 14. Winch. Guide. v. 1. 84.

Cyperoides alpinum, spicis seminiferis pendulis, binis in summo caule. Seguier. Veron. v. 3. 83. t. 3. f. 1.

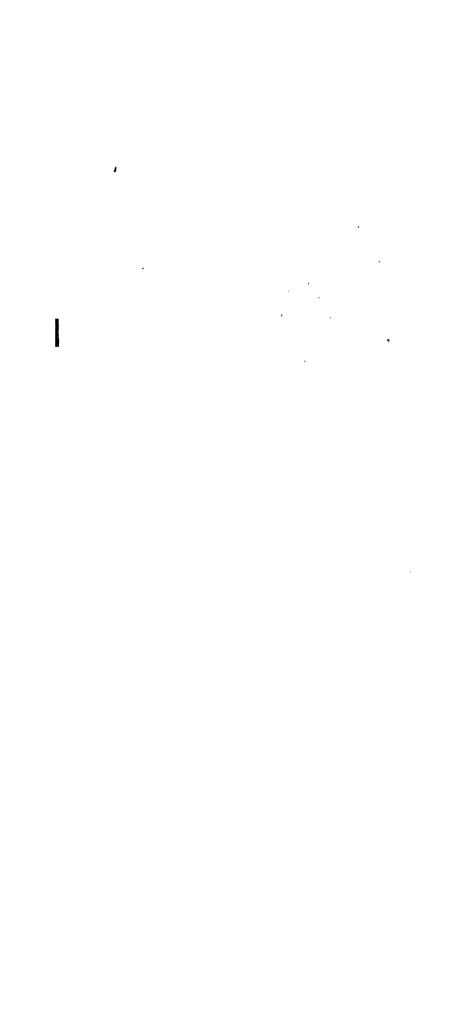
THE Rev. Dr. Stuart found this rare Carex on some of the Highland mountains of Breadalbane, and communicated it to Mr. Lightfoot, through whom it first became known as a Scottish plant. It has since been sent to Mr. Sowerby from the county of Durham, by the Rev. Mr. Harriman. It usually grows in bushy rather moist places, flowering in July or August.

August.

Root perennial, fibrous. Stem erect, 3 or 4 inches high, roundish, striated, smooth, naked, or nearly so. Leaves scarcely 2 inches long, mostly radical, narrow, acute, dark-green, slightly keeled, rough-edged towards the top only. Principal bractea like the leaves but smaller, terminating the stem, erect, sheathing at the base, embracing a few smaller inner ones, along with all the flower-stalks, which are about twice its own length, 3 or 4 in number, capillary, triangular, rough, sometimes separated from each other by an accidental elongation of the stem. Male spike erect, linear, pale, of about 10 flowers: female 2 or 3, drooping or pendulous, ovate, lax, not half an inch long. Glumes ovate, brown, pale-edged. Stigmas 3. Fruit dark-brown, ovate, triangular, smooth, with a sharp beak. Seed elliptical, with 3 sharps angles.



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Г 2516]

CAREX rariflora.

Loose-flowered Alpine Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none. Female Cathin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths extremely short. Female spikes nearly linear, pendulous; their scales loosely imbricated. Fruit obovate, with three blunt angles and depressed sides. Root creeping.

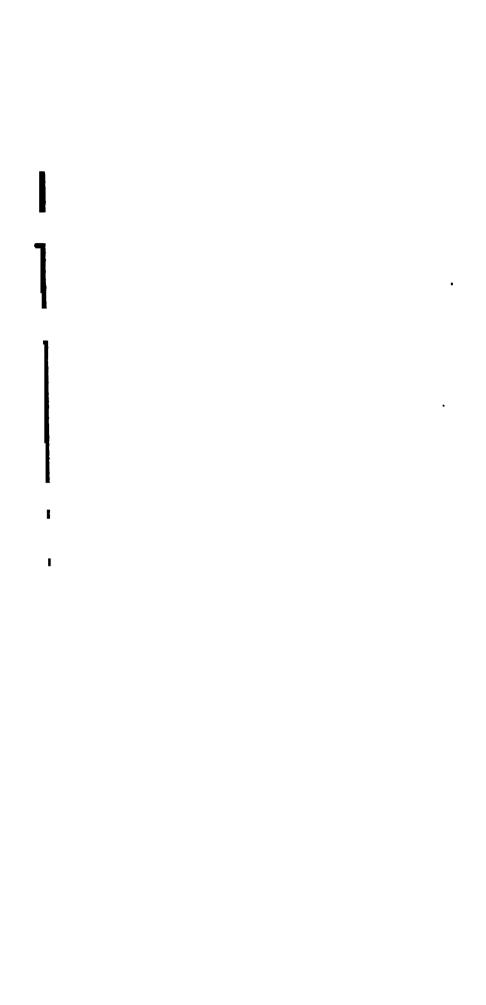
Syn. Carex limosa γ, rariflora. Wahlenb. in Stock. Trans. for 1803. 162. Willd. Sp. Pl. v. 4. 294.

DISCOVERED in 1807, by Mr. G. Don, on a mountain at the head of a glen called the Dell, among the mountains of Clova, Angusshire, near the limits of perpetual snow. Its acute discoverer wished therefore to have named the species C. nivalis; but we think it incumbent on us to retain the appellation by which this plant is marked, very unaccountably indeed, as a variety of C. limosa, t. 2043, in the above works. We have authentic specimens from Mr. Wahlenberg, precisely like Mr. Don's.

Surely few Carices can be more distinct than this and limosa. They agree indeed in the creeping root, short sheaths of the bracteas, and drooping female spikes; but the present is in every part much smaller, and the shape of the female spikes, composed of a few remarkably lax, or distant, scales, blacker than in limosa, marks a sufficient difference. The fruit is oboyate, not broad and compressed.



Floring Sheldy Johny Land





I REE Pleudo-Cyperus. and the Cares.

DUCEUL Francis. Lieux imbricated. Cal. of one Female. Cathin imbricated. in lower-tialks, pendulous

Lon. Sp. Pl. 1387.

Lon. Soc. v. 2. 188.

Lon. Soc. v. 2. 188. reminis breviore. Rui

wer haiv places, flowering the reft of 10 mm all the reft of 10 mm are the police of the reft of the r en en together, but

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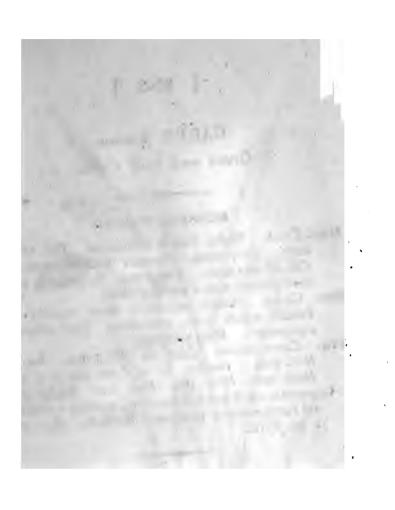
The many mes, above a foot high.

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CAREX limosa. Green and gold Carex.

MONOECLA Triandria.

Gam. CHAR. Male, Cathin imbricated. Cal. of one scale. Car. none. Female, Cathin imbricated.

Cal. of one scale. Car. none. Stigmas 2 or Seed clothed with a swelling tunic.

Senor Cinas. Sheaths extremely short, scarcely any Female spikes ovate, pendulous. Fruit elliptical

compressed. Root creeping.

Sus: Carex limesa. Linn. Sp. Pl. 1386. Sm. F

Brit. 986. Gooden. Tr. of Lenn. Soc. v. 2. 18

Hhdis. 409. With. 103. Hall. 208. Lightf. 550

Caperaides spice pendula breviore, squamis e spadice
vel fusco purilante viridibus. Scheucht. Agr. 44

L. 10. f. 13.

THIS, one of our most elegant species of Carex, especiallifrom the bronze has of its spakes, is found only in deep blace notion bogs, chiefly in Scotland and the north of Englander Mr. G. Dun sent it from near Forfar. The late Rev. Mil Bryant and Mr. Woodward have found it a few miles norm of Norwich, in a tract of country once rich in botanical treasures, but now more useful to the farmer. It flowers in June

but rarely, at least in Norfolk.

The long creeping perennial roots, sheathed with blace scales, send very long woolly fibres down deep into the multiple berbage is rather glaucous. Stems ascending, triangular a span high, rough, leafy at the base. Leaves narrow acute, keeled, rough-edged, shorter than the stems. Bractalike the leaves but much smaller, with a brown, abrup white-edged, very short sheath. Male spike terminal, ereclanceolate, with many elliptical acute glumes, of a brown and golden hue. Female spikes 1 or 2, on longish, smooth drooping stalks, ovate, of many broadly elliptical acute scale variegated with green, brown and gold. Fruit elliptical, broadcompressed, glaucous, ribbed, smooth, with scarcely are beak. Stigmas 3. Germen and seed triangular, scarce compressed.



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[2404]

17.

CAREX ustulata.

Scorched alpine Carex,

MONOECIA Triandria.

- GEN. CHAR. Male, Catkin imbricated. Cal. of onscale. Cor. none. Female, Catkin imbricated

 Cal. of one scale. Cor. none. Stigmas 2 or Seed clothed with a swelling tunic.
- Seec. Char. Sheaths very short. Female spike ovate, pendulous. Fruit elliptical, compressed beaked, with sharp and roughish edges. Rooms fibrous.
- SYN. Carex ustulata. Willd. Sp. Pl. v. 4. 293. Wahkrab. in Sims & Kon. Ann. of Bot. v. 2. 130. C. atro-fusca. Schlubr. Car. 106. t. Y. n. 82.

GATHERED in watery places in a micaceous soil on the mountain of Ben Lawess, by Mr. Geo. Don, the only person



CAREX atrata. Black Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one Cor. none. Female, Cathin imbricated. Seed clothed with a swelling tunic.

Sheaths scarcely Cal. of one scale. Cor. none.

SPEC. CHAR. Stamens two or three. any. Spikes ovate, stalked, pendulous; the terminal one male in the lower part. Fruit compressed.

Root fibrous.

Linn. Sp. Pl. 1386. SYN. Carex atrata. Brit. 987. Gooden. Tr. of Linn. Soc. v. 2. 189. Huds. 409. With. 105. Hull. 208. Lightf. 555. Dicks. Dr. Pl. 87. Fl. Dan. t. 158.

Cyperoides alpinum pulchrum, foliis caryophyllæis, spicis atris et tumentibus. Scheuchz. Agr. 481. t. 11.

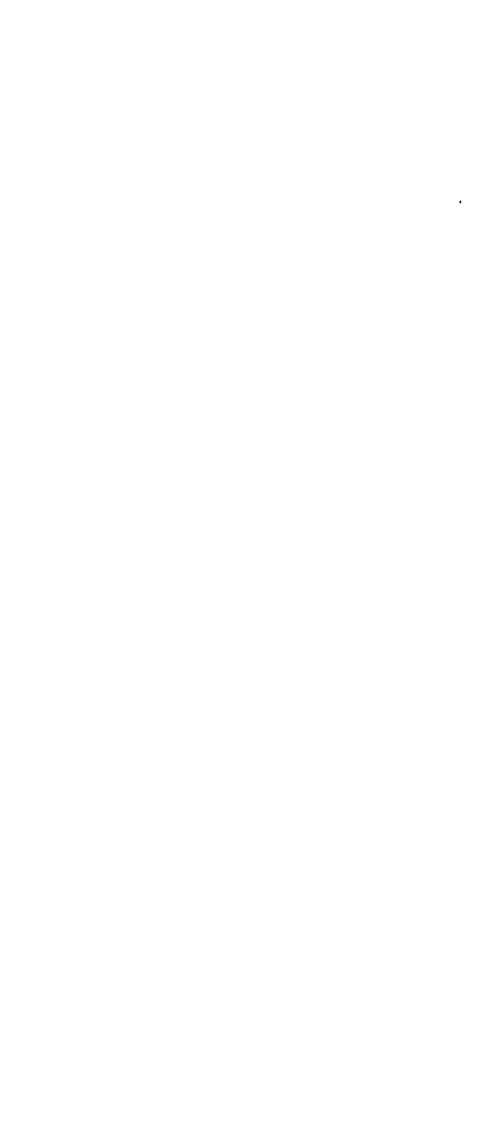
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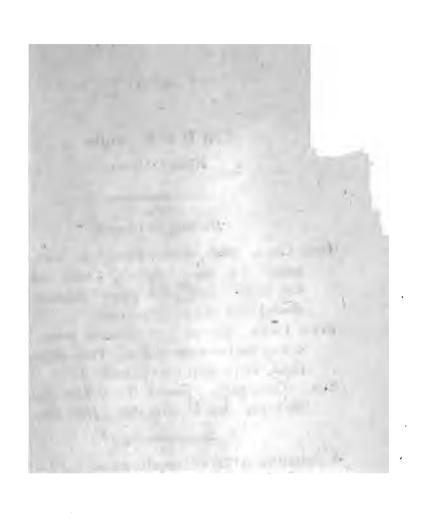
GATHERED by Mr. G. Don on rocks in Breadalbane. Mr. Lightfoot says it is frequent on the Highland mountains, and Mr. Hudson on the Welch ones; but we have reason to think they did not then distinguish all the species, so well explained in the present Bishop of Carlisle's excellent paper, especially

his Lordship's rigida and pulla.

C. atrata is, of course, perennial, flowering in June and July. It is one of the larger and more conspicuous alpine species, nor can it be overlooked. The root is fibrous, tufted, hardly creeping. Stem erect, a foot and more in height, triangular, striated, scarcely rough-edged, naked except the bottom. Herbage of a bright grass green. Leaves broad, flat, tom. Herbage of a bright grass green. Leaves broad, flat, rough-edged, shorter than the stem. Bracteas leafy, with arricles rather than any sheaths. Spikes mostly 4, on smooth stalks, ovate, thick and obtuse, soon pendulous, formed of numerous ovate, acute, very dark scales. The terminal one consists of several male flowers in its lower part, the upper ones, as well as all the flowers of the other spikes, being female, except that stamens are now and then found in the same flower with a pistil. The stamens are usually thought to be 2, but Mr. Sowerby often finds 3. Stigmas always 3. Fruit elliptical. broad, compressed, yellowish, smooth, ribless, with a pistil to the same flower with a pistil. Seed triangular, short, brown brows







[2045]

CAREX pulla. Russet Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Stigmas two. Sheaths none. Spikes ovate; the lower one stalked. Fruit elliptical, inflated, with a short notched beak.

Syn. Carex pulla. Gooden. Tr. of Linn. Soc. v. 3. 78. t. 14. Sm. Fl. Brit. 988. Hull. 208.

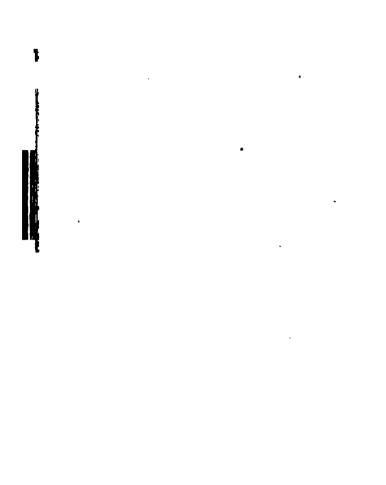
COMMUNICATED wild from the mountain of Ben Lawers by our lamented friend Mr. J. Mackay, at different times, several years ago. It flowers in July, and is perennial.

Root creeping, with thick fibres. Stem ascending or erect, about a span high, triangular, striated, the angles rough in





Chap's ray published by Je hoorly Loud n.



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[2185]

CAREX pallescens. Pale Carex.

MONOECLA Trimbia.

- Gest. Call. Male, Callin imbricated. Cal. of 1 scale. Car. none. Female, Cathin imbricated. Cat. of 1 scale. Cor. none. Stigmas 2 or 3. News ciotited with a swelling tunic.
- Sesti. CHAR. Sheaths very short. Spikes cylindrical, smilestic where in fruit pendulous. Fruit elliptical, indicated of these.
- Sex. Carry pallescens. Linn. Sp. Pl. 1886. Sn. Pl. Brit. 1883. Govden. Tr. of Linn. Soc. v. 2. 186. Finis. 1883. With 108. Hall. 208. Lightf. 558. Resh. 2084. Suith 238. Althou 204. Dicks. H. Sien. inc. 18. io. Schinder. v. 92. t. Kk. f. 99.
 - Gramen cypercities polystactivon flavicans, spicis breuitus prope summisatem caulis. Reii Syn. 419.

COMMON in maint groves and pastures, flowering in May and June. It is known by its pallish green colour when in





[1294]

CAREX flava.

Yellow Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none. Female, Cathin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths short, nearly equal to the flowerstalks. Female spikes roundish. Fruit beaked, curved downwards. Stem nearly smooth.

Syn. Carex flava. Linn. Sp. Pl. 1884. Sm. Fl. Brit. 990. Gooden. Tr. of Linn. Soc. v. 2. 173. Huds. 407. With. 98. Hull. 207. Lightf. 551. Relh. 367. Sibth. 29. Abbot. 204. Dicks. H. Sicc. fasc. 3. 14. Schkuhr. n. 60. t. H. f. 36. Gramen palustre echinatum. Raii Syn. 421.

FREQUENT in boggy meadows, where it flowers in May and June, and may readily be discerned at a distance by it wellow has especially as it approaches to maturity.



The Real Property of the Park Street of the Park Street or Street Calculation of Spirits Annual Acceptant And

1295]

CAREX fulva.

Tawny Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Sheaths long, but shorter than the flowerstalks. Female spikes ovate. Fruit beaked, straight. Stem rough.

SYN. Carex fulva. Gooden. Tr. of Linn. Soc. v. 2. 177. t. 20. f. 6. v. 3. 77. Sm. Fl. Brit. 991.

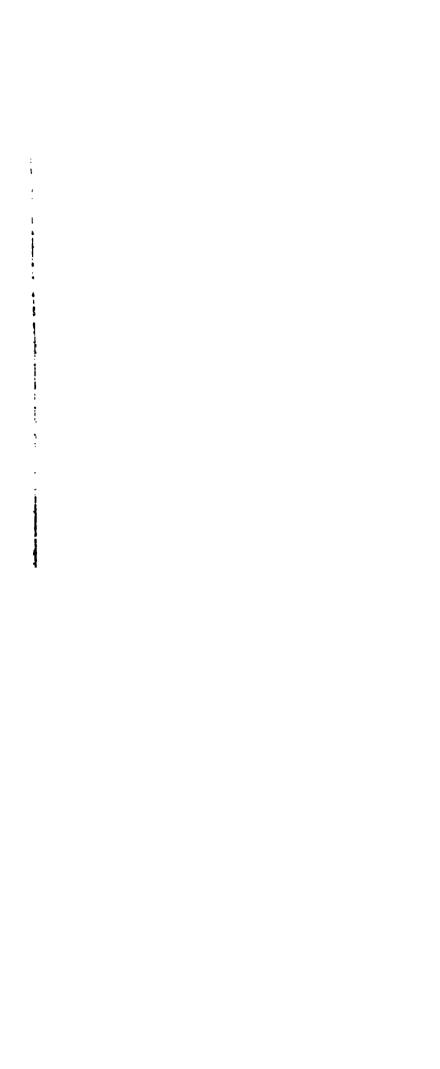
THIS new species was first described and figured by Dr. Goodenough, from specimens gathered in Shropshire by the Rev. Mr. Williams. Mr. Gotobed has since found it near Eton, Mr. Winch at Newcastle, and several of our friends have sand

it from Scotland. It is perennial, growing in marshes, and flowering in June or July.

Root creeping. Stem erect, slender, about a foot high, triangular, the angles sharp and very rough, at least in all the upper part. Leaves upright, narrow, shorter than the stem, rough at the edges and keel, but not on the upper side. Bracteæ with longish brown-tipped sheaths, their points not rising above the stem. Male spike linear. Female ones 2, rarely 3, tawny, ovate, erect, remote, on stalks which are about half as long again as their sheaths. Glumes ovate, never awared, obscurely percent. about half as long again as their sheaths. Glumes ovate, never awned, obscurely nerved. Fruit longer than the glumes, brownish, pointing upwards (not recurved), beaked, smooth, except at the edges of the beak, cloven at the tip. Seed yellowish brown, twice as large as in the preceding.

Some erroneous specimens led the accurate Dr. Goodenough to reduce this (in L. Trans. v. 3.) to a variety of C. flava, but we have traced the cause of this mistake. C. fulva is rather more akin to distans, t. 1234, but smaller, and distinguished by its rough stem, glumes without any awns, and longer-beaked rough-edged fruit.





E STEE 7 C.1 R.H.S Onlin-Celestas Cara.

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[1773]

CAREX Oederi.

Oederian Cares.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths short, nearly equal to the flowerstalks. Female spikes roundish. Fruit globose with a straight beak, spreading in all directions. Stem smooth.

Syn. Carex Oederi. Ehrh. Calam. 79. Schhuhr. n. 55. t. F. f. 26. Turn. and Dillw. Bot. Guide, 65. 446. 566. 715.

C. extensa. Relh. 367. Teesd. Tr. of L. Soc. v. 5. 69.

SENT from Norfolk in July last by Mr. Turner, who mentions it as frequent on all the moist commons about Yarmouth. The synonym of Relhan stands on the authority of this gentleman; that of Teesdale is decided by specimes sent from Beverley by their late worthy finder, which agree







[833]

CAREX extensa. Long-bracteated Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

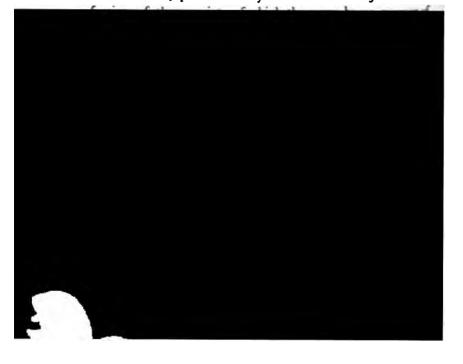
SPEC. CHAR. Brace very long, with very thort sheaths and flower-stalks. Female-spikes roundish.

Fruit ovate. Stem smooth.

SYN. Carex extensa. Gooden. Tr. of Linn. Soc. v. 2.
175. t. 21. f. 7. and v. 3. 77. Sm. Fl. Brit. 992.
With 99. Hull. 207.

Cyperoides echinatum majus. Dill. in Raii Syn. 421.

THIS Carex, when first found by the Rev. Mr. Bryant on Cley beach, Norfolk, in 1776, was taken for the filiformis of Linnæus. Other specimens were afterwards referred by botanists to the C. flava. At length Dr. Goodenough, having examined the plant in a living state in Devonshire and near Harwich, published it by the name of extensa as a new







[1254]

CAREX distans.

Loose Carex.

MONOECIA Triandria

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths elongated, nearly as long as the flower-stalks. Spikes oblong, very remote. Scales

pointed. Stem smooth.

Syn. Carex distans. Linn. Sp. Pl. 1387. Sm. Fl. Brit. 993. Gooden. Tr. of Linn. Soc. v. 2. 178. Huds. 412. With. 100. Hull. 207. Relh. 368. Sibth. 31. Abbot. 202. Schkuhr. n. 87. t. T. f. 68. Gramen cyperoides spicis parvis longissimè distantibus.

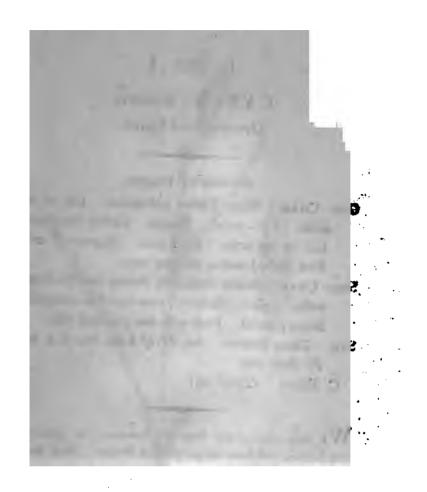
Raii Syn. 420.

THIS Carex most frequently occurs in such marshy places as are not remote from the sea, but it is sometimes found in mountainous countries. Our specimen grew at Yarmouth. It is perennial, and flowers in June.

Root fibrous Stem 10 to 18 inches high week but nearly







[1235]

CAREX binervis.

Green-ribbed Carex.

. MONOECIA Triandria.

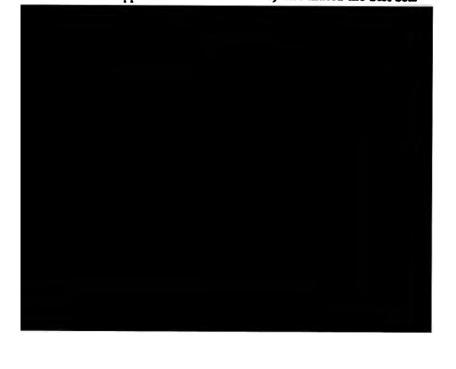
GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Sheaths elongated, shorter than the flowerstalks. Spikes cylindrical, remote, often compound. Scales pointed. Fruit with two principal ribs.

SYN. Carex binervis. Sm. Tr. of Linn. Soc. v. 5. 268. Fl. Brit. 993.

C. distans. Lightf. 561.

WE have received this from Mr. Brunton, who gathered it near Rippon, and from various parts of Britain. Prof. Beattle informs us that it is very common on the driest moors or heaths about Aberdeen, flowering in June. From Lightfoot's description it appears to be his C. distans, and indeed the best bota-





L pact) CARS 1000 The state of the s and Day

[1099] CAREX præcox. Vernal Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of t scale. Cor. none. Female, Catkin imbricated Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a fwelling tunic.

Sheaths short, nearly equal to the SPEC. CHAR. Spikes ovate, rather clustered. flower-stalk. Glumes tipped with a fmall point. Fruit roundifu,

downy.

Carex præcox. Sm. Fl. Brit. 994. Gooden. Tr. of Linn. Soc. v. 2. 170. With. 97. Hull. 206. Relb. 367. Sibth. 29. Abbot. 205. C. faxatilis. Hudf. 408.

Gramen cyperoides vernum minimum. Raii Syn. 421.

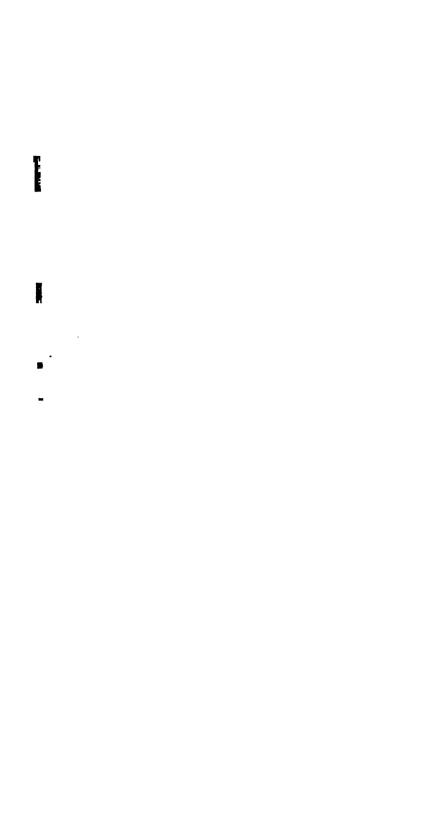
DRY pastures, heaths, and exposed fituations abound with this Carex, which is rendered confpicuous in the fpring by its numerous tufted yellow antheræ. It is the earliest of its genus, in this country as well as in Germany. The name of process was first given, we believe, by the celebrated Professor Schreber, for Linnaus never determined this species, and our British botanists erroneously confidered it as either the faxatilis or mentana of the illustrious Swede.

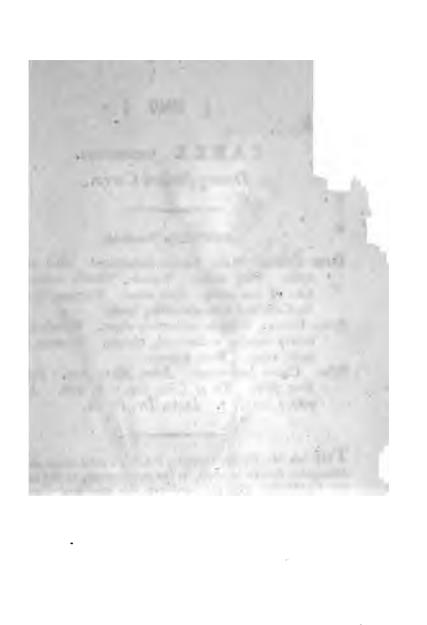
Its perennial root creeps, and branches out into feveral leafy tufts. The fiem ascends obliquely to the height of from 3 to 6 inches, and is firm, triangular, fmooth and naked. Leaves radical, thort, rigid, acute, recurved, roughish, especially at the edges. Bracteze erect, often wanting; their theaths thort, dilated upwards. Male fpike obovate, and rather obtufe, especially when the antherse are not expanded. Glumes elliptical or ovate, those of the female florets more particularly pointed. Female spikes about two, erect, near together, on thortish stalks. Fruit roundish, or somewhat pear-shaped, downy, green tipped with brown, fcarcely fo long as the glumes. Stigmas three, Seed whitish, triangular.





S. 25.





CAREX tomentosa.

Downy-fruited Carex.

MONOECIA Triandria.

Male, Cathin imbricated. Cal. of one GEN. CHAR. scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. scale. Seed clothed with a swelling tunic.

SPEC. CHAR. Sheaths extremely short. Female spikes nearly sessile, cylindrical, obtuse. Glumes ellip-

tical, acute. Fruit downy.

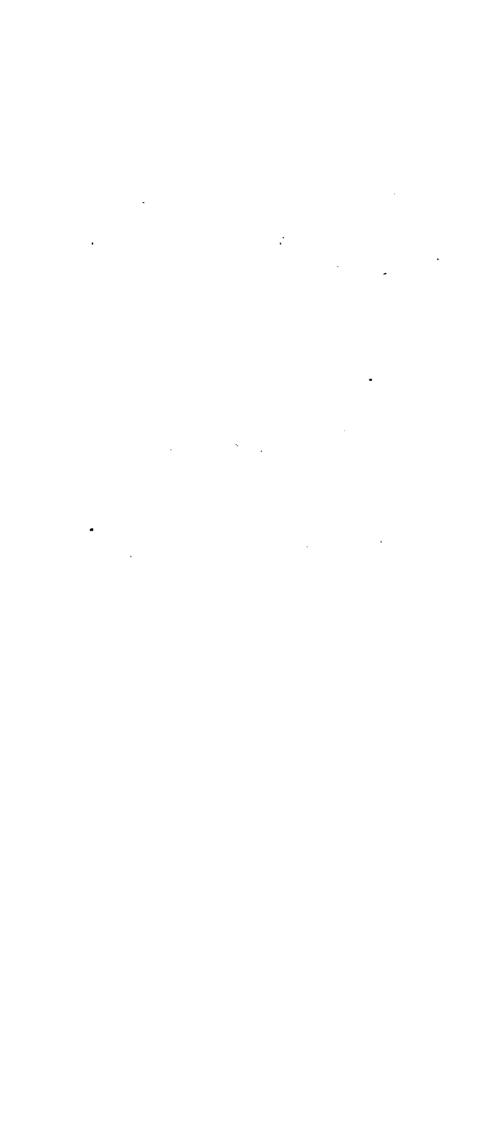
Linn. Mant. 123. Sm. Fl. Carex tomentosa. Tr. of Linn. Soc. v. 5, 269. Brit. 996. 200. t. 15. f. 7. Dichs. Dr. Pl. 43.

THE late Mr. Robert Teesdale, F.L.S., a most acute and in-defatigable British botanist, is the only person, to the best of our knowledge, who ever gathered this species of Carex in Britain. He found it, flowering in June, in meadows near Merstone Measey, Wiltshire, in 1799, and thus its name is restored to the list of British plants, from which it had been erased since the learned Bishop of Carlisle discovered the C. tomentosa of Lightfoot and Hudson to be the Linnman

filiformis.

The root creeps, with long and compound fibres. The stems are a foot or more in height, erect, naked, with three sharp angles rough upwards. Leaves shorter than the stem, upright, flat, grass-green, rough on both sides and at the edges. Bracteas leafy, rather spreading, the longest rising somewhat above the stem, with scarcely any sheath. Male spike lanceolate, bluntish, with lanceolate, rusty scales having green keels, the upper ones occasionally pointed. Female spike keels, the upper ones occasionally pointed. Female s usually two, not very distant, almost sessile, cylindrical, blunt, various in length, their glumes elliptic-ovate, slightly pointed, rusty with broad green keels. Fruit about as long as the scales, crowded, roundish, scarcely at all compressed and but slightly triangular, green clothed with short dense whitish down, which turns tawny by long keeping. The beak is short and cloven. Seed pale, obscurely triangular.





CAREX rigida. Rigid Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of one scale. Cor. none. Female, Cathin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. scale.

Seed clothed with a swelling tunic.

Spec. Char. Stigmas two. Sheaths none. Spikes ovate; the upper ones sessile. Leaves rigid and somewhat recurved. Fruit rather compressed, entire.

Carex rigida. Gooden. Tr. of Linn. Soc. v. 2. 193. t. 22. f. 10. Sm. Fl. Brit. 997. With. 106. Hull. 208.

C. saxatilis. Fl. Dan. t. 159.

4.

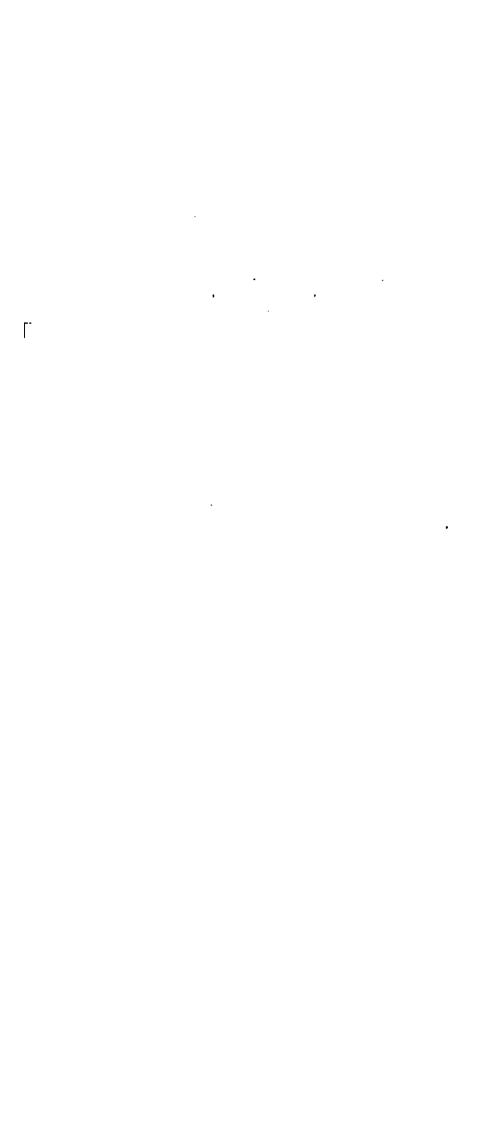
Cyperoides germanicum, foliis brevibus rigidis acutis, caule rotundo-triquetro, spicis parvis, squamis ob-tusè mucronatis, capsulis oblongis turbinatis, in angustum et longiusculum apicem attenuatis. Mich. Gen. 61. t. 32. f. 4.

WHEN I showed the late Mr. Hudson my original specimen of this Carex, gathered on the top of Ben Lomond in 1782, and called saxatilis by the Scottish botanists, he told me he had found the same on Snowdon. It is not however his saxatilis, which is præcox of Fl. Brit. The present Bishop of Carlisle first clearly distinguished and named the plant before us. Mr. Mackay sent our specimen.

It grows on the exposed summits of the loftiest mountains, flowering in June or July, and is known by its rigid firm

It grows on the exposed summits of the loftiest mountains, flowering in June or July, and is known by its rigid firm habit and recurved leaves. The root is creeping, with thick downy fibres. Stem from 3 to 6 inches high, mostly incurved, with three sharp rough angles. Leaves rigid, somewhat glaucous, permanent, with rough edges and keel. Bractea generally shorter than the stem, auricled at the base, Male spike mostly solitary, short, thick, ovate, blunt, with abrupt pointless glumes of a dark brown, with a pale narrow keel. Female spikes generally 3, ovate, the 2 upper ones sessile near the male; the other distant, on a short stalk, erect, with elliptical blunt glumes. Fruit crowded, compressed, smooth, longer than the glumes, brown where exposed, entire, sometimes beaked. Stigmas 2.





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or other party of

[1505]

CAREX panicea.

Pink-leaved Carex.

MONOECIA Triendrie.

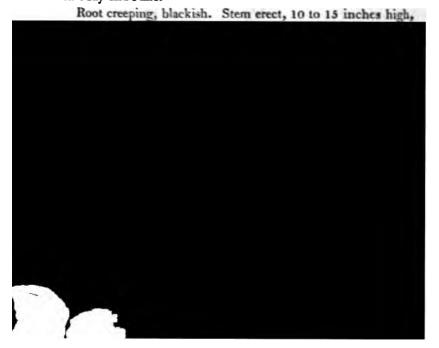
GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Sheaths elongated, about half the length of the flower-stalks. Female spikes rather loose, distant. Fruit inflated. Stem smooth.

STN. Carex panicea. Linn. Sp. Pl. 1387. Sm. Fl. Brit. 993. Gooden. Tr. of L. Soc. v. 2. 179. Huds. 410. With. 100. Hull. 207. Relh. 368. Sibth. 30. Abbot. 205. Schkuhr. Car. n. 93. t. L, l. f. 100.

Gramen cyperoides, foliis caryophylleis, spicis e rarioribus et tumidioribus granis compositis. Raii Syn. 418. Pluk. Phyt. t. 91. f. 7.

NOT uncommon in moist pastures and meadows, flowering in May and June.





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[1506]

CAREX recurva. Glumous Heath Carez.

MONTROLA Transit

GES. CEAR. Male, Cathin imbricated. Cal. of one scrie. Car. none. Female, Cathin imbricated. Cal. of me scrie. Car. none. Migness 2 or 3. Mass cinemis with a swelling tentic.

See: Cras. Shearis start. Female spikes cylindrical, penalminus. Fruit elliptical, minegular, roughish.

Sinss. Carrex recurres. Hulis. 413. Sm. Fl. Brit. 999.
 Guiden. Tr. of L. Suc. v. 2, 184. With, 102.
 Hull. 208. Relb. 569. Silich. 51. Abbot. 206.
 Fl. Dun. v. 1050.

Gramen expernides, frilis caryuphylleis, spicis oblongis e pediculis longioribus pendulis. Raii Syn. 418.

VEXY common in pastures, grows and the moist parts of open heathy places, where its short glanous leaves render it was conspicuous both in div and wet weather. It flowers in



Carry when south, Manager a company of the the state of the s The Participal March 18th Inch 200

[2236]

CAREX Micheliana.

Blunt-fruited Black Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated. Cal. of one scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Spikes upright, cylindrical; the female ones stalked. Glumes all obtuse and pointless.

Fruit obovate, very blunt.

Syn. Carex Micheliana. Sm. Tr. of Linn. Soc. v. 5. 270. Fl. Brit. 1004.

C. ambleocarpa. Willd. Sp. Pl. v. 4. 307.

Cyperoides foliis caryophylleis, caule exquisitè triangulari, spicis habitioribus, squamis curtis, obtusè mucronatis, capsulis turbinatis brevibus confertis. Mich. Gen. 62. t. 32. f. 12.

THE introduction of this, as a distinct species, into the Flora Britannica having led botanists into a mistake, we judge it right to lay before them all the sources of our error, by exhibiting a plate of the specimen on which it was founded,





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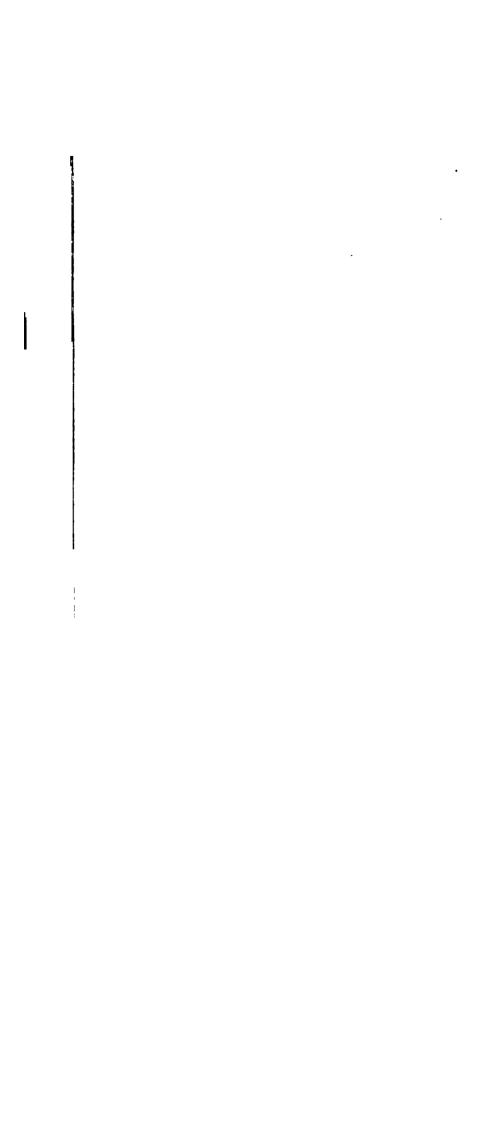
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[914]

CAREX stricta. Glaucous straight-leaved Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none. Female, Cathin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Stigmas two. Bracteæ not sheathing, slightly auricled. Spikes nearly sessile, cylindrical, elongated, acute. Fruit deciduous.

SYN. Carex stricta. Gooden. Tr. of Linn. Soc. v. 2. 196. t. 21. f. 9. Sm. Fl. Brit. 1000. With. 107. Hull. 208.

C. cæspitosa. Huds. 412. Lights. 561, B.

Gramen cyperoides foliis caryophylleis, spicis erectis sessilibus, e seminibus confertis compositis. Rais Syn. 418.

THIS Carex, though known to Ray, has not been generally distinguished by modern botanists from the casspitosa, till Dr. Goodenough clearly discriminated them in his excellent paper. They agree in having only 2 stigmas, no sheaths to









[580]

C A R E X acuta.

Slender-spiked Carex.

MONŒCIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. inflated, permanent. Seed triangular, invested with the corolla.

SPEC. CHAR. Stigmas two. Spikes cylindrical, flender; the female ones drooping when in flower, creek in fruit. Corolla pointed, entire.

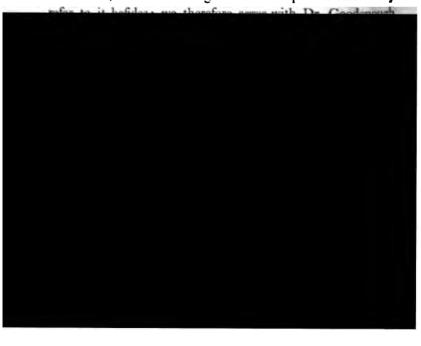
Syn. Carex acuta: Gooden. Tr. of Lim. Soc. v. 2. 203. With. 109. Linn. Sp. Pl. 1388, α. Fl. Succ. 334, β. Hudf. 413, β.

C. gracilis. Curt. Lond. fasc. 4. t. 62. Relb. 357.

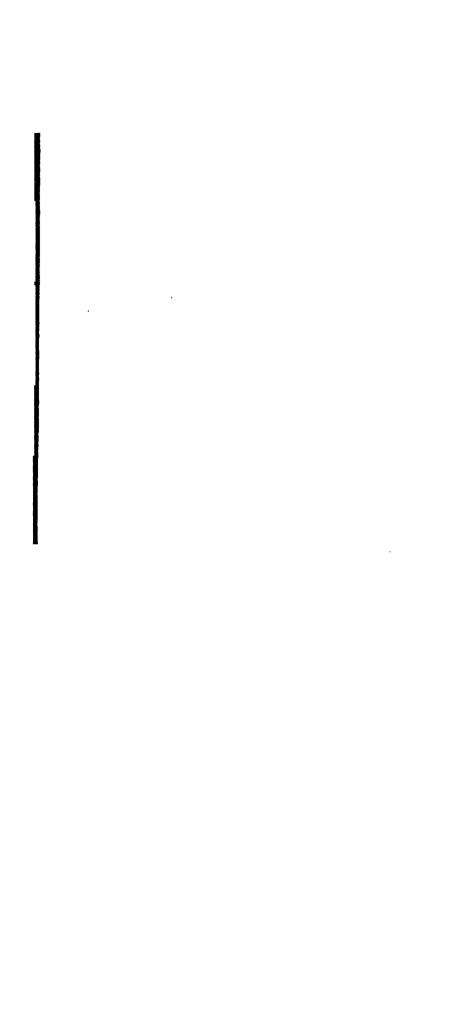
Sibth. 32.

Gramen cyperoides majus angustifolium. Raii Syn. 417.

I QUALLY common with the last in similar situations, slowering in May, being according to Mr. Curtis's observations a week or two later than that. This is certainly what Linnaeus intended for C. acuta in both editions of his Species Plantarum, whatever he might at different periods erroneously









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[807]

CAREX paludofa.

Lesser Common Caren.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of t fcale. Cor. none. Female, Catkin imbricated. Cal. of 1 fcale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

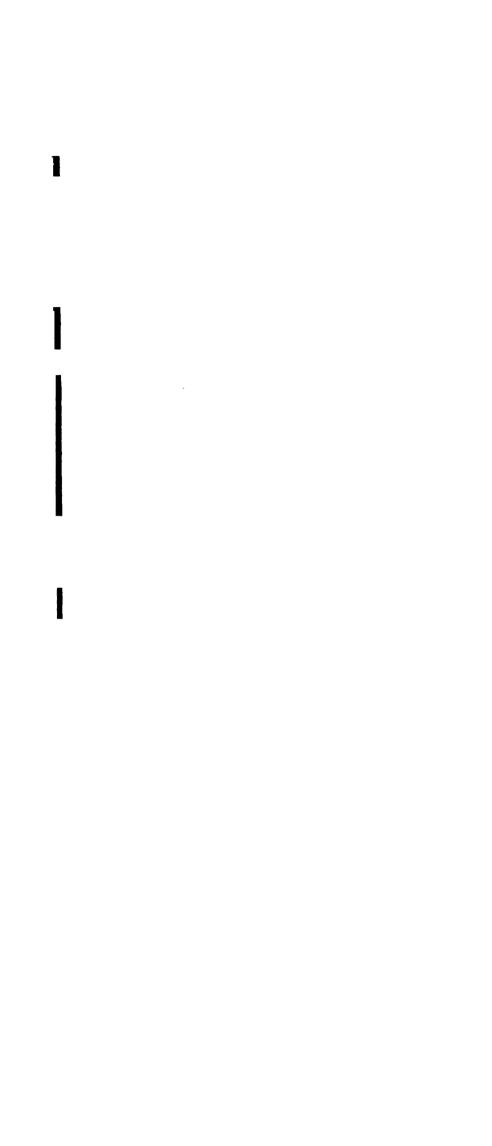
SPEC. CHAR. Spikes cylindrical, bluntish, erect; the female with awn-pointed scales; the male with blunt ones. Fruit elliptical, notched.

SYN. Carex paludosa. Gooden. Tr. of Linn. Soc. v. 2.
201. Sm. Fl. Brit. 1002. With. 108. Hull. 209.
C. acuta. Curt. Lond. fasc. 4. t. 61. Huds. 413, y.
Gramen cyperoides minus, angustisolium. Dill. in
Reii Syn. 418.

E have already alluded to this Corex in describing the riportic and the anata in our 9th volume, t. 579 and 580. It is found in watery places, like them, and is full as common as the hand at least asserting in May. The root is perennial,







[579] CAREX riparia. Great Carex.

MONŒCIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 fcale. Cor. none. Female, Catkin imbricated. Cal. of 1 fcale. Cor. inflated, permanent. Seed triangular, invested with the corolla.

Spec. Char. Spikes oblong, acute; the male with lanceolate scales; the semale with awn-pointed ones. Corolla ovato-lanceolate, forked at the tip.

Syn. Carex riparia. Curt. Lond. fafc. 4. t. 60. Gooden. Tr. of Linn. Soc. v. 2. 200. With. 108. Relb. 356. Sibth. 31. Abbot. 206.

C. acuta. a. Hudf. 413.

Gramen cyperoides cum paniculis nigris. Raii Syn. 417.

ON E of our most common species of Carex at the banks of ditches and rivers, and in most watery places, slowering about April or May, and distinguished from all others by its greater size. There are indeed two more species, which had generally in England been consounded with this, till Mr. Curtis clearly determined their differences in the 4th sasciculus of his Flora, the paludosa and acuta of Dr. Goodenough. Linnæus confounded all three together under his acuta.

C. riparia has a firong, widely creeping, perennial root. Stem two or three feet high, leafy, with three fharp rough angles, which, like the edges of the leaves, cut like a fine faw-Leaves broad, fharp, erect, deep-green, a little glaucous beneath; those on the stem having a sheathing reticulated base. Spikes alternate, one of them terminal, about 3 of each sex, but the upper semale ones generally terminate in several male slowers. The scales of the males are lanceolate, generally pointed, often blunt; those of the semales, especially the lower ones, blunt, tipped with a sharp rough awn, one great mark of the species. The stigmas are three. The permanent corolla cloven at the tip, and ribbed. The male spikes are triangular, generally acute, but sometimes blunt.





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[1387]

CAREX lævigata. Smooth-stalked Beaked Carex.

MONOECIA Triendrie.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none. Female, Cathin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

SPEC. CHAR. Spikes cylindrical: the female ones on stalks. Sheaths very long. Glumes pointed. Fruit triangular, with a cloven beak.

SYN. Carex Levigata. Sm. Tr. of Linn. Soc. v. 5. 272. F. Brit. 1005.

C. atthicpiez. Schlahr. Caric. 107. n. 91. t. Z. f. 83.

OUR specimens were gathered July 3d by Mr. E. Forster in a baggy thicket near Warier Common, Essex. The same gentleman has found this species in Comwall and Sussex. It was first observed in Sciencial; see Fl. Brit.; but has been everticated by most becauses. Schkuhr had it from the isle



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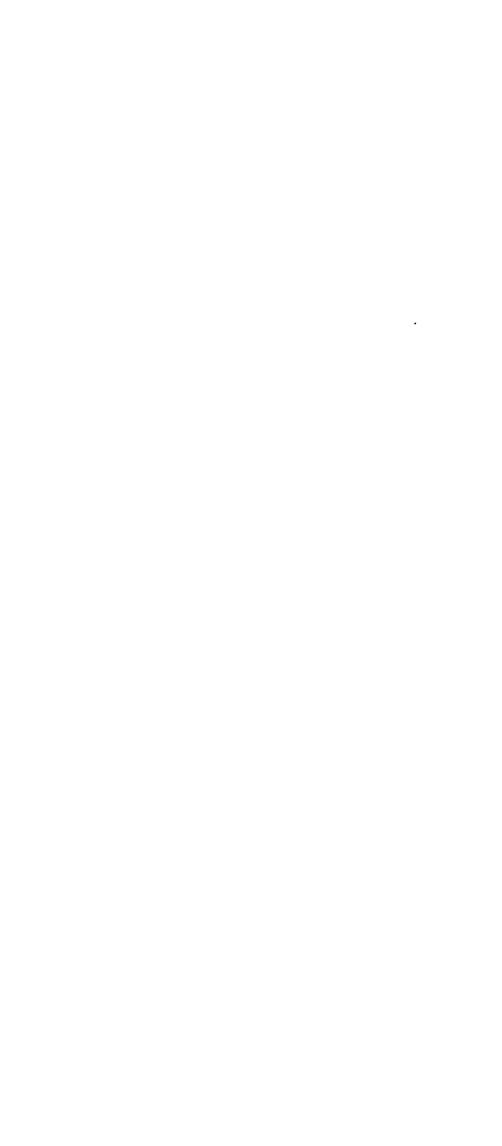
I minum Face 112 Legisla 15.

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AND the same increase lives the replaced is found in The second and second s I come a se resi ausment it the nurthern or mountainous The same and the same with near the water-works at Facility, and effective about the Traines. It flowers in May, Hom seremen ant remning. Some spright, 2 feet high,







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[780]

CAREX ampullacea. Slender-beaked Bladder Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of 1 scale. Cor. none. Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Female spikes cylindrical, elongated, nearly sessible. Sheaths none. Fruit inflated, with a linear forked beak.

SYN. Carex ampullacea. Gooden. Tr. of Linn. Soc. v. 2. 207. Sm. Fl. Brit. 1006. With. 110. Hull. 209.

C. veficaria. Hudf. 413. Lightf. 566.

C. roftrata. Sibtb. 32. Abbot. 206.

Gramen cyperoides polyftachyon majus, fpicis teretibus erectis. Raii Syn. 419.

THIS Carex is also most common in Scotland and the northern counties; in the fouth it more rarely occurs. It is plentiful at Seething in Norfolk. We received our specimen by savour of Mr. J. Holme of Peter-house, Cambridge, from a watery gravel-pit near that town, where the plant was sint remarked by the Rev. Mr. Newton, F. L. S. It is not a Linnaran species, and has been much mistaken by different bounists. Hudson quotes a synonym of Ray which belongs to our vesscaria, subjoining its proper denomination as a variety. Dr. Stokes first well illustrated it by the name of rostrata, in Dr. Withering's 2d edition. It slowers in May.

Root creeping, perennial. Stem with 3 blunt angles, which below the lowest bractea are smooth. Leaves narrow, rather glaucous. Male spikes 2 or 3, very slender, with bluntish scales; semale 2 or 3, with generally sharper ones. These semale spikes are longer and more slender than those of C. vestaria, consisting of numerous spreading yellowish inflated roundish fruits, each terminating in a linear beak, nearly of its own length, which is cloven at the point. Seed small, crowned with the long style.



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(685)

CAREX hirta.

Hairy Carex.

MONŒCIA Triandria.

GEN. CHAR. Male, Catkin imbricated. Cal. of one scale. Cor. none. Female, Catkin imbricated. Cal. of one scale. Cor. hollow, permanent, investing the seed.

Spec. Char. Hairy. Spikes flort, cylindrical, remote. Sheaths nearly equal in length to the flower-ftalks. Scales awned. Fruit hairy.

Syn. Carex hirta. Linn. Sp. Pl. 1389. Gooden. Tr. of Linn. Soc. v. 2. 208. Hudf. 414. With. 111. Hull. 209. Relb. 357. Sibth. 33. Abbot. 207. Dickf. H. Sicc. fusc. 11. 16.

Gramen cyperoides polystachyon lanuginosum. Raii Syn. 418.

THIS species of Carex belongs to that division of the genus in which the male spikes are more than one. It is not uncommon in most meadows and other waters places flowering to





CAREX filiformis. Slender-leaved Carex.

MONOECIA Triandria.

GEN. CHAR. Male, Cathin imbricated. Cal. of 1 scale. Cor. none.

Female, Catkin imbricated. Cal. of 1 scale. Cor. none. Stigmas 2 or 3. Seed clothed with a swelling tunic.

Spec. Char. Spikes ovate; males generally two. Sheaths nearly as long as the flower-stalks. Scales pointed. Fruit downy. Leaves channelled, smooth.

SYN. Carex filiformis. Linn. Sp. Pl. 1385. Gooden. Tr. of Linn. Soc. v. 2. 172. t. 20. f. 5. Sm. Fl. Brit. 1008. With. 97. Hull. 207.

C. tomentosa. Lights. 553. Huds. 650.

C. hirta. Fl. Dan. t. 379, except the separate spike.

THE late Dr. Hope having received specimens of this Cores from some meadows near Ayr, made it known to Mr. Light-soot, who took it for the tomentof of Linnæus. (See Tr. of L. Soc.) It has since been gathered by Mr. Mackay in several other parts of Scotland. The Rev. Mr. Williams has sound





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[733]

ERIOCAULON feptangulare.

Jeinted Pipewort.

MONOBCIA Trimèria.

GEN. CHAR. Common Cults of many leaves, many-flowered: partial of 2 or 3 leaves. Cor. in 2 or 3 fegments.

Male fl. in the middle of the disk. Female in the border. Signess 2 or 3. Capl. 2- or 3-lobed. Seeds solitary.

SPEC. CHAR. Stem with 7 angles. Leaves pointed, formed of a network of cells. Male florets of 1 petal with 4 flamina.

Syn. Eriocaulon septangulare. Sin. Fl. Brit. 1010. With. 184. Sym. Syn. 41.

E. decangulare. *Hull.* 29. *Lightf.* 569. Nafmythia articulata. *Hudi.* 415.

A LESS general inhabitant of alpine lakes than even the Subularia, t. 732; for we know not that it has been found in any other part of the world than the ifle of Skye, from whence





LITTORELLA boshin

Famous More red

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Ger. C.L.I. Mine. LE. 1-cerni. Cor. of one petal, र्राटी प्रेम्बर स् प्राप्त

France L. rome for if one petal, unequally series. New of one <u>--i.</u>

Hest. Lant. ---ira. Laturala comira. Lom. Marc. 255. Heif. 415.

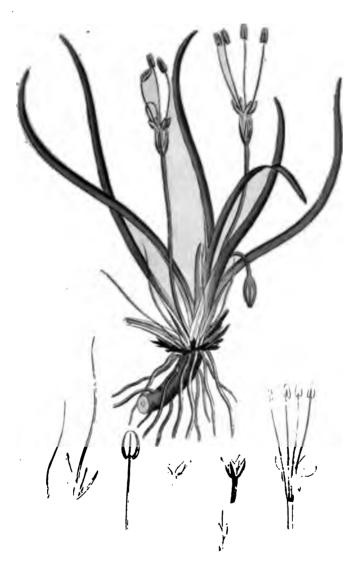
Tim. on... Like 521.

Tim. on... Like 521.

I millies grammer unte mentarios, Parificula-

A No. 11 II marky later in various parts of Great Renaul margin are set management. See T. G. Callum, Bart. Seemen and howevery a Carmillant, Scients, fowering in ber at

The wome man a man it i plantain. Roce percential, long, make here. Throng me numerous imple threewith large linear street imparts; moves beneath, fat, or a lime commelier answer filamet at the base; very much re-densiting made it Pleasage mer man. Make forwers several, so-liners at any imme matri finks former it high as the leaves, week layer it a normal leaves. Corolla with an inflated more, the impa is a supplemente divisions, exactly as in



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[468]

LITTORELLA lacustris.

Plantain Shore-weed.

MONOECIA Tetrenérie.

GEN. CHAR. Male, Cal. 4-leaved. Cor. of one petal, 4-cleft. Stamma very long. Female, Cal. none. Cor. of one petal, unequally 3-cleft. Style thread-like, very long. Nut of one

cell.

SPEC. CHAR. ---STN. Littorella lacustris. Linn. Mant. 295. Huds. 415. With. 194. Relb. 358.

Plantago unifiora. Linx. Sp. Pl. 167.

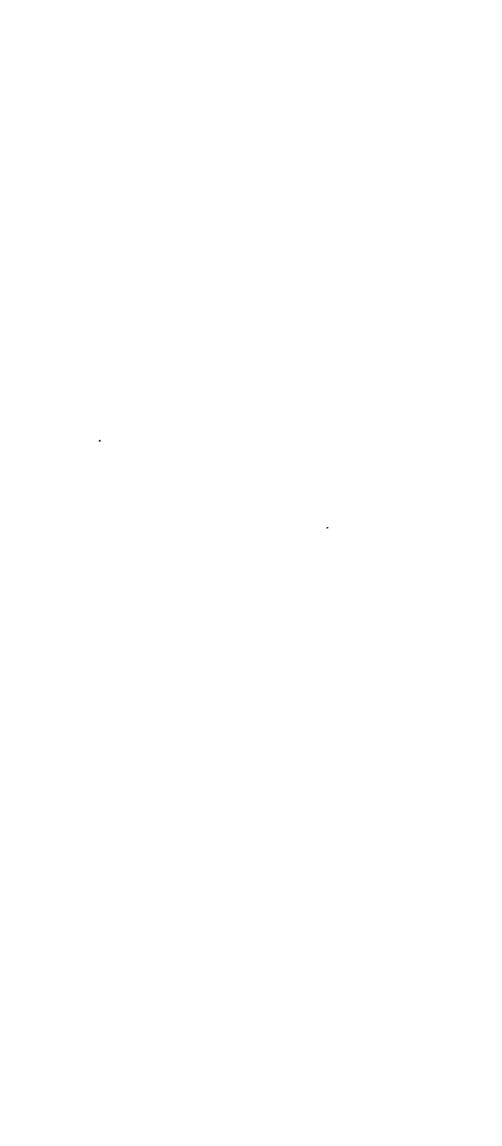
P. palustris gramineo folio monanthos, Parisienss. Raii Syn. 316.

A NATIVE of marshy fandy spots in various parts of Great Britain, though not very common. Sir T. G. Cullum, Bartshewed it to Mr. Sowerby at Cavenham, Suffolk, flowering in June last.

The whole habit is that of a plantain. Root perennial, long, fpindle-shaped, throwing out numerous simple sibres. Stem none. Leaves linear, entire, smooth; convex beneath, slat, or a little channelled above; dilated at the base; very much resembling those of *Plantago maritima*. Male slowers several, solitary, on long simple naked stalks scarcely so high as the leaves, erect. Calyx of 4 equal leaves. Corolla with an inflated tube; the limb in 4 equal concave divisions, exactly as in *Plantago*. Stamina equal, erect, very long and slender. An







1 2326 7

BETULA nana.

Dwarf Birch.

MONOECLA Tetrandria.

GEN. CHAR. Male, Cal. scale of a catkin, of 1 leaf, 3-flowered. Cor. none. Stam. 10-12. Female, Cal. scale obscurely 3-cleft, 3-flowered. Cor. none.

Senc. Chir. Leaves orbicular, crenate. Sex. Betula nana. Linn. Sp. Pl. 1394. Fl. Lapp. ed. 2. 274. t. 6. f. 4. Sm. Fl. Brit. 1012. Huds. 416. With 207. Hull. ed. 2. 281. Lightf. 575. t. 25. Pallas. Ross. v. 1. p. 1. 63. t. 40. f. D-G. Dicks. H. Sicc. fasc. 18, 16,

A CONSIDERABLE degree of celebrity is attached to this shrub, from its frequent mention in the Flore Lapponice, and Tour to Lapland recently published, of Linnaus, as well as from its being the subject of his first dissertation in the Ananitutes Acudemicae. It is by no means rare in Scotland, from whence our wild specimen came, yet it was not known to British botanists till Sir James Nasmyth made the discovery about 40 years ago.

The shrubby, rigid, much branched stem is about a yard high, with a blackish back, slightly downy on the young twigs. Leaves alternate, on short stalks, of a circular form, sometimes abrupt and kidney-shaped, strongly and unequally create, rigid, smooth, reticulated with veins, deciduous. Buds with concave fringed scales. The male catkins grow from lateral leafless buds, and are sessile, cylindrical, dark brown, one third of an inch in length, appearing in May when the young haves are beginning to expand. The female ones terminate little short shoots, with two leaves at the base, and are orate, shorter, and green, with red styles. However valuable in the domestic occurrency of the poor Laplander, this shrub is scarcely known out of the most northern parts of Europe.



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[2326]

BETULA nana.

Dwarf Birch.

MONOECIA Tetrandria.

Male, Cal. scale of a catkin, of 1 leaf, GEN. CHAR. 3-flowered. Cor. none. Stam. 10-12. Female, Cal. scale obscurely 3-cleft, 3-flowered. Cor. none. Styles 2. Seeds compressed, winged.

SPEC. CHAR. Leaves orbicular, crenate. SYN. Betula nana. Linn. Sp. Pl. 1394. Ft. Lapp. ed. 2. 274. t. 6. f. 4. Sm. Fl. Brit. 1012. Huds. 416. With. 207. Hull. ed. 2. 281. Lightf. 575. t. 25. Pallas. Ross. v. 1. p. 1. 63. t. 40. f. D-G. Dicks. H. Sicc. fasc. 18. 16.

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「 1508]

RETULA Alnus.

Common Alder.

MONOECLA Tetrandria.

GEN. CHAR. Male. Cal. scale of a cathin, of 1 leaf. S-cleft, 3-flowered. Cor. 4-cleft. Female, Cal. scale obscurely 3-cleft, 2-flowered. Styles 2. Seeds compressed.

SPEC. CHAR. Flower-scalks branched. Leaves roundish, somewhat wedge-shaped, waved, serrated, glutinous; downy at the branching of the veins beneath.

Syn. Betula Alnus. Linn. Sp. Pl. 1394, a. Sm. Fl. Brit. 1013. Hads. 416. With. 206. Hull. 210. Reih. 374. Sibth. 64. Abbot. 207. Alnus. Raii Syn. 442. Ger. em. 1477.

A VERY general tree in boggy grounds about lakes or rivalets, throwing its broad arms and umbrageous foliage with much picturesque effect over the still reedy pool, and supplying the want of the oak in such parts of a landscape. It blossoms in March, or early in April, but the leaves are not





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[1341]

BUXUS sempervirens.

Box-tree.

MONOECIA Tetrandria.

GEN. CHAR. Male, Cal. of 3 leaves. Petals 2. Rudiment of a germen. Female, Cal. of 4 leaves. Petals 3. Caps. with 3 beaks, 3 cells, and 2 seeds in each cell.

SPEC. CHAR.

Syn. Buxus sempervirens. *Linn. Sp. Pl.* 1394. *Sm. Fl. Brit.* 1013. *Hude.* 417. *With.* 210. *Hull.* 210. Buxus. *Raii Syn.* 445.

S.B. angustifolia. Dill. in Raii Syn. 445.

THE Box grows on dry chalky hills, but not universally. Rav mentions Box hill in Surrey; Boxwell, Gloucestershire; and Boxley, Kent; three places evidently named from their producing this plant, of which the first-mentioned is the most famous. It is a conical hill, naturally clothed with these













Age 1 1804 Fallyhap by Fel Son well India

[148]

URTICA pilulifera.

Roman Nettle.

MONŒ CIA Tetrandria.

GEN. CHAR. Male. Cal. 4-leaved. Cor. none. Nellary in the centre, cup-shaped. Female. Cal. 2-leaved. Cor. none. Seed one, polished.

SPEC. CHAR. Leaves opposite, ovate, serrated. Catkins of fruit globose.

SYN. Urtica pilulifera. Linn. Sp. Pl. 1395. Hudf. Fl. An. 417. With. Bot. Arr. 1070.

U. pilulifera, folio profundius Urticæ majoris in modum ferrato, femine magno lini. Raii Syn. 140.

SENT by Dawson Turner Esq. in July last from Yarmouth, where, as in various parts of the Norfolk and Suffolk coast, this kind of nettle is found growing abundantly among rubbish and stones. Its sting is more painful than either of our common species whose structure is so well illustrated by Mr. Curtis in his Flora Londinensis.

This is an annual of very luxuriant growth, about 2 feet high, stem obtusely angular, often purple. Leaves on longish







[1236]

URTICA urens.

Small Nettle.

MONOECLA Tetrendrie.

GEN. CHAR. Male, Cal. 4-leaved. Cor. none. Rufiment of a germen cup-shaped. Female, Cal. 2-leaved. Cor. none. Seed 1, superior, polished.

SPEC. CHAR. Leaves opposite, elliptical, about five-

Syn. Urzica urens. Linn. Sp. Pl. 1396. Sm. Fl. 1871. 1015. Huds. 417. With. 202. Hull. 210. Rev. 574. Sibth. 62. Abbot. 208. Curt. Lond. 1882. & 4.70.

U. minor. Raii Syn. 140.

THIS troublesome and prohite weed is sufficiently well known to cultivators of every description. It is an annual of quick growth, through most on a light soil, and often forming two everys in the course of the year.

les humbbler sière, annual fibrous root, brighter green colout,







[1750] URTICA dioica. Great Nettle.

MONOECLA Tetrandria.

GEN. CHAR. Male, Cal. 4-leaved. Cor. none. Rudiment of a germen cup-shaped. Female, Cal. 2-leaved. Cor. none. Seed 1, superior, polished.

SPEC. CHAR. Leaves opposite, heart-shaped. Clusters much branched, in pairs, mostly dioecious.

Syn. Urtica dioica. Linn. Sp. Pl. 1396. Sm. Fl. Brit. 1016. Huds. 417. With. 201. Hull. 210. Relh. 375. Sibth. 62. Abbot. 208. Curt. Lond. fasc. 6. t. 69.

U. racemifera major perennis. Raii Syn. 139.

EVERY body is acquainted with the common perennial Nettle, so abundant in waste places, whether open or shady, blossoming throughout the latter part of summer; but few have perhaps had courage or curiosity enough to investigate parts so strictly guarded, and to perceive that the barren flowers are commonly all from one root, the fertile from another, or,







XANTHIUM strumarium.

Burweed, or Small Burdock.

MONOECIA Pentandria.

GEN. CHAR. Male, Common Calyx imbricated. Florests of one petal, funnel-shaped, five-cleft. Receptucie chaffy.

Female, Calyx two-leaved, two-flowered. Cor. none. Drupe dry, muricated, cloven. Nut of 2 cells.

Segg. Char. Stem without thorns. Leaves heartshaped; three-ribbed at the base.

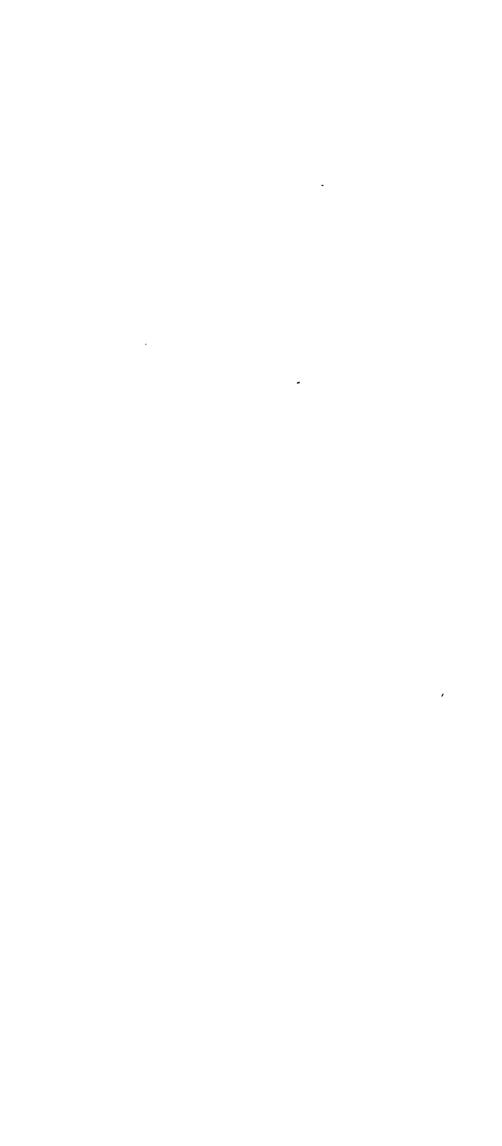
Suss. Xanthium strumarium. Linn. Sp. Pl. 1400.
Sm. Fl. Brit. 1017. Huds. 418. With. 283.
Ehill ed. 2. 278. Fl. Dan. t. 970.

X. seu Lappa minor. Raii Syn. 140. Bardana minor. Ger. em. 809.

I SINS pilant, trhough it has been found in several places to the south of London, is so more that we have been forced to content ourselves with gurden specimens. It requires a rich, moist, or dunghill, soil, where it mostures its inelegant blossoms in August and September, and is chiefly remarkable for the seed-vessels, which appear afterwards in numerous axillary tufts, covered with hooked spines. These attach themselves to the coats of animals, like the heads of the real Burdsek, Arctium, see t. 1228, 2478; which circumstance, added to the broad roughish leaves, threesibled at their base, are enough to excuse the application of the same English name to two plants so different in important characters. Yet the Xunthiam is one of those ambiguous genera, whose male flowers are compound, though not syngenesious, and whose female ones are of so different a structure, as abundantly to justify, and indeed to render indispensable, the preservation of the Linnson classes Momenia and Disecta.







[2212]

AMARANTHUS Blitum.

Wild Amaranth.

MONOECIA Pentandria.

GEN. CHAR. Male, Cal. of 3 or 5 leaves. Cor. none. Stam. 3 or 5. Female, Cal. of 3 or 5 leaves. Cor. none. Styles 3. Capsule of 1 cell, splitting all round. Seed 1.

Spec. Char. Flowers three-cleft and triandrous, in small lateral tufts. Leaves ovate. Stem diffuse.

Syn. Amaranthus Blitum. Linn. Sp. Pl. 1405. Sm. Fl. Brit. 1018. Huds. 418. With. 174. Hull. ed. 2. 279. Relh. 375.

Blitum rubrum minus. Dill. in Raii Syn. 157.

THIS dunghill plant is more frequent about London than elsewhere. Mr. Dickson, to whom we are obliged for our specimen, gathered it in the rich soil of Battersea fields. It is annual, bearing its little inconspicuous blossoms in August, and seeding plentifully in that month and the following.

The habit is rather that of an Atriplex than of such of its more specious congeners as decorate our gardens. The stems









BRYONIA dioica.

Red-berried Bryony.

MONCECIA Syngenofia.

GEN. CHAR. Male, Cal. 5-toothed. Cor. 5-cleft. Filements 3. Antheræ 5.

> Female, Cal. 5-toothed. Cor. 5-cleft. Style 3-cleft. Berry inferior, roundish, with many feeds,

Spec. Char. Leaves palmate; rough on both fides with callous points. Male and female flowers on separate plants.

Bryonia dioica. With. 67. Sibth. 81. Jacq.

Austr. v. 2. t. 199.
B. alba. Huds. 437. Relb. 37.
B. ruderalis. Salisb. Prodr. 158. Relb. 375. Raii Syn. 261.

COMMON every where in hedges and thickets, flowering from May to September.

Root perennial, growing to a very large fize, white, arrid, and purgative (fee Withering). Stems annual, climbing by means of fimple tendrils, angular, rough, not much branched, very long. Leaves alternate, on rough foot-stalks, palmate, with five angular lobes, veiny, rough on both fides with small callous points. Stipulæ none. Flowers in axillary bunches, the males larger, on longer stalks, and on a separate root from the semale, contrary to the other species of this genus, which therefore stands in the class Monacia of the Linnau system. Calyx bell-shaped, with five sharp teeth. Corolla longer, in five elliptical obtuse segments, whitish, veined with green. Stamina consisting of three short filaments hairy in their lower part, two of which bear each of them two antherse, and the third a solitary one, though Mr. Sowerby has observed all of them to bear double antherse occasionally. The antherse are all most corollars of the state of the st to bear double antheræ occasionally. The antheræ are all more or less firmly connected at their base, and bear the pollen on their outer edge. The semale flowers are a little elevated on a short stalk above the smooth globular germen, and have no rudiments of stamina. The style is divided into three branches, with cloven downy stigmas. Berry red, of one cell, sall of sectid juice, enveloping six elliptical spotted seeds.

Most writers have consounded this with the Bryania all of Linnæus, called alba from the white root, though the bears of that are black. Dillenius, on the authority of Pluines, mentions it as not rare about Cambridge and Professor Manya assures us no one else has found.

a is the Swellh affures us no one else has found

plant, fee Flora Suecica.





[947]

CERATOPHYLLUM demersum.

Common Hornwort.

MONOECIA Polyandria.

GEN. CHAR. Male. Cal. in many divisions. Cor. none. Stam. 16 to 20.

Female. Cal. in many divisions. Cor. none. Stigma nearly sessile. Seed solitary, coated.

Spec. Char. Fruit armed with three spines.

Syn. Ceratophyllum demerium. *Linn. Sp. Pl.* 1409. *Huds.* 419, α. *With.*-440. *Hull.* 211. *Relb.* 361. *Sibtb.* 168.

Hydroceratophyllon folio aspero, quatuor cornibus armato. Vaill. Mem. de l'Acad. des Sciences (German edition) 299. t. 15. f. 1. Raii Syn. 135.

THE diligence of our obliging correspondents the Rev. Mr. Holme and Mr. Pitchford, has this season supplied us with the fructification of Ceratophyllum demersum, which enables us now to complete the history of that genus: see v. 10. t. 679.

This species is very common in stagnant waters, ditches and fish-ponds, slowering in September. The root is perennial, Herb floating under water, and agreeing in habit with C. submersum, except that the leaves appear to be more distinctly









CERATOPHYLLUM fubmerfum.

Unarmed Hornwort.

MONOECIA Polyandria.

GEN. CHAR. Male. Cal. in many divisions. Cor. none. Stam. 16 to 20.

Female. Cal. in many divisions. Cor. none. Stigma nearly fessile. Seed solitary, coated.

SPEC. CHAR. Fruit destitute of spines.

SYN. Ceratophyllum submersum. Linn. Sp. Pl. 1409. With. 441. Hull. 211. Fl. Dan. t. 510.

C. demerium 3. Huds. 419.

Hydroceratophyllon folio lævi, octo cornibus armato. Faill. Mem. de l'Acad. des Sciences (German edition) 299. t. 15. f. 2. Dill. in Raii Syn. 135.

DILLENIUS mentions his finding this plant, with Mr. Manningham, in ditches by the road from Chichester to Selsey island. Our specimen was gathered near Yarmouth by Mr. D. Turner, slowering in September.

Root perennial. Whole plant floating under water, much branched. Stender. Leaves about 8 in a whorl, forked twice

hranched, flender. Leaves about 8 in a whorl, forked twice



CERATOPHYLLUM submersum.

Unarmed Hornwort,

MONOECIA Polyandria.

Cal. in many divisions. Cor. GEN. CHAR. Male. none. Stam. 16 to 20. Female. Cal. in many divisions.

Cor. none. Stigma nearly sessile. Seed solitary, coated.

Fruit destitute of spines. Spec. Char.

SYN. Ceratophyllum submersum. Linn. Sp. Pl. 1409. With. 441. Hull. 211. Fl. Dan. t. 510.

Huds. 419. C. demersum β .

Hydroceratophyllon folio lævi, octo cornibus armato. Vaill. Mem. de l'Acad. des Sciences (German edition) 299. t. 15. f. 2. Dill. in Raii Syn. 135.

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Root perennial. Whole plant floating under water, much branched stender. Leaves about 8 in a whorl, forked twice





[t;]

MINICIETLLUM fpicatum.

MAN VAR-VELT

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Jenn Jame Lie intr-ierved. Petals four.

summer ergen. Fernage. Lie feur-ierved. Petals

van Jame van Spie nung. Spie four, naked.

Steel Teles Make flowers in interrupted naked makes

True F. J. V. Fait. Box. Av. 1077. Relb.

Francous dels semais. La der 150.

where the states are included and instance people, flowering at large and states, makes to manuscrass sed spikes, flanding send source for action, makes to wave companions. This spectrume make treat the second side like of Dogs, facing addressment Measures.

"At twee-tre task is betweening a they are long and flender. The demo-tre also were derived in their lower part, round and made betweening the part, and and asset between the part, and and and asset between the part of the



[218]

MYRIOPHYLLUM verticillatum, Verticillate Water-Milfoil,

MONOECIA Polyandria.

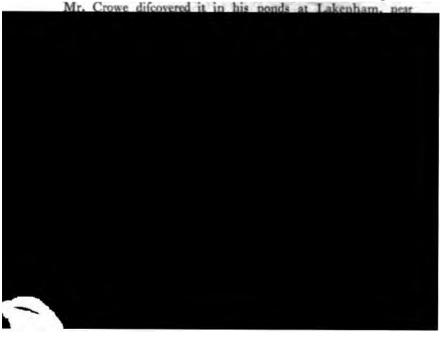
GEN. CHAR. Male. Cal. 4-leaved. Pet. 4. Stam. 8. Female. Cal. 4-leaved. Pet. 4. Pift. 4. Style none. Seeds 4, naked.

SPEC. CHAR. All the flowers in axillary whorls.

SYN. Myriophyllum verticillatum. Linn. Sp. Pl. 1410. Hudf. Fl. An. 420. With. Bot. Arr. 1078. Relb. Cant. 361. Sibth. Oxon. 132.

Pentapterophyllon aquaticum flosculis ad foliorum nodos. Raii Syn. 316.

W E have given the most common Water Milsoil in tab. 83 of this work. That now before us is much more rare. It has been sent from several of the eastern parts of the kingdom.





he live The same god for a Real of her Wildel Brown











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1298

ARUM maculatum. Cucinu-pixt. or Wake Robin.

Ministration Principal

Gibt. Character Steered of one leaf, rolled together at the housest. Steered of one leaf, rolled together at the housest content. Steered of the middle, and germens at the base. Better of 1 cell.

State Chief. State none. Leaves halberd-shaped, entre. Spacia chib-shaped, obtune.

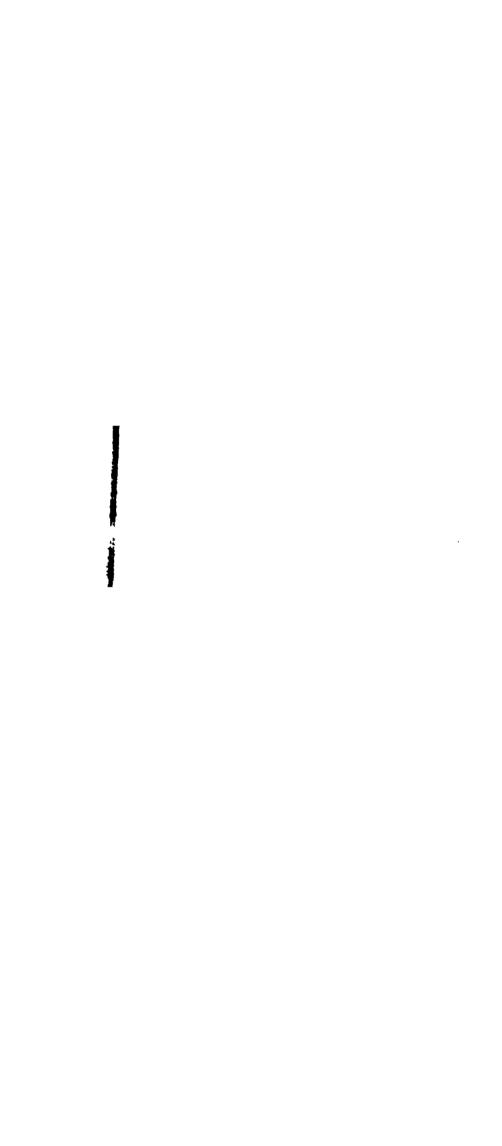
STR. Armit marriature. Line. Sp. Pl. 1570. Sm. Fl. Err. 1784. Hulb. 595. With 497. Hull. 198. Line 1. 575. Sirvi. 177. Afric. 197. Curt. Lond. 188. L. 188. Winds. Mod. Bot. t. 25.

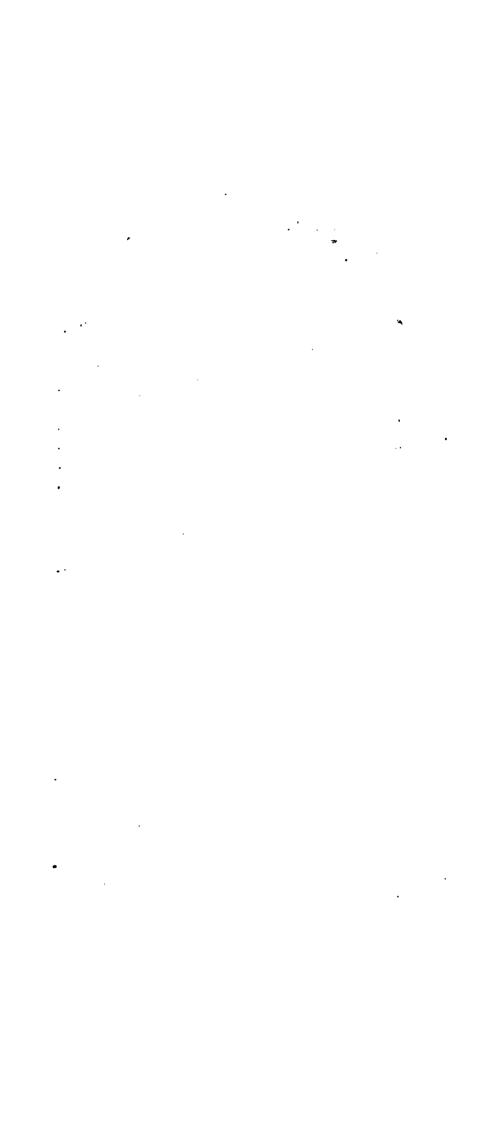
Arms. In San Sin.

All the first automain of spring the verdant shining leaves of the first automain of spring the standards wherever any brush-viole remains them from the tread of men or of cattle. In Mar the very entrangelment between appear. In automa, after near forwers and hours have standard, a space of scarlet berries,









[860]

POTERIUM Sanguisorba.

Common Burnet.

MONOECIA Polyandria.

GEN. CHAR. Male, Cal. 3-leaved. Cor. 4-cleft. Stam. 30 to 40.

Female, Cal. 3-leaved. Cor. 4-cleft. Pift. 1 or 2.

Nut of 2 cells, clothed with the hardened tube of the corolla.

Spec. Char. Thorns none. Stem somewhat angular. Syn. Poterium Sanguisorba. Linn. Sp. Pl. 1411. Huds. 421. With. 493. Hull. 212. Relb. 362. Sibth. 168. Abbot. 209. Curt. Lond. fasc. 2. 1. 64. Mart. Fl. Rust. 1. 69.

Sanguisorba minor. Raii Syn. 203.

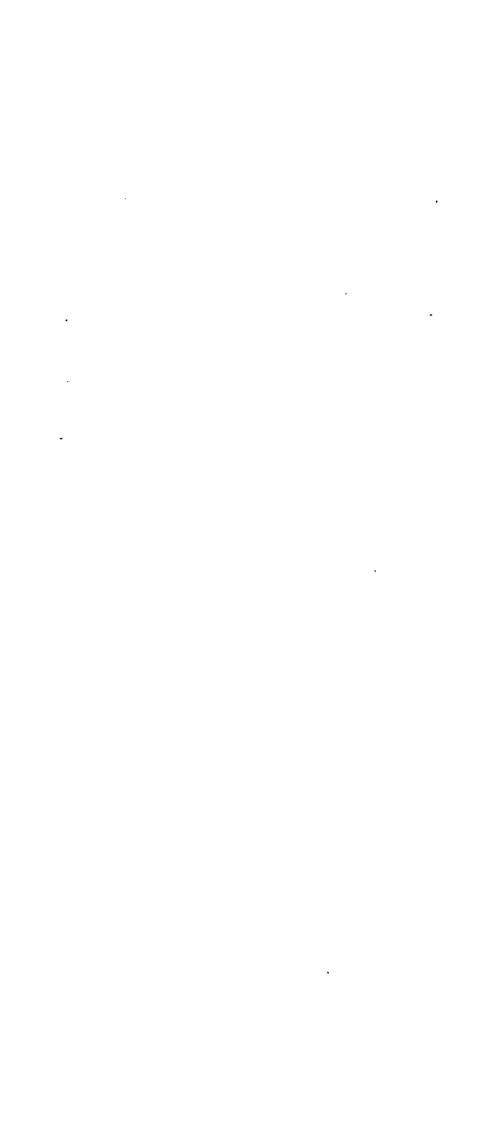
A NATIVE of dry chalk or limestone hills, where it generally grows in great plenty, and flowers in July.

The root is strong, woody and perennial. Stems upright, branched, various in height, more or less angular, leafy, smooth. Leaves pinnated, with round neatly-ferrated leastets, veiny, smooth but not shining, having a glaucous hue.









[1342]

QUERCUS Robur.

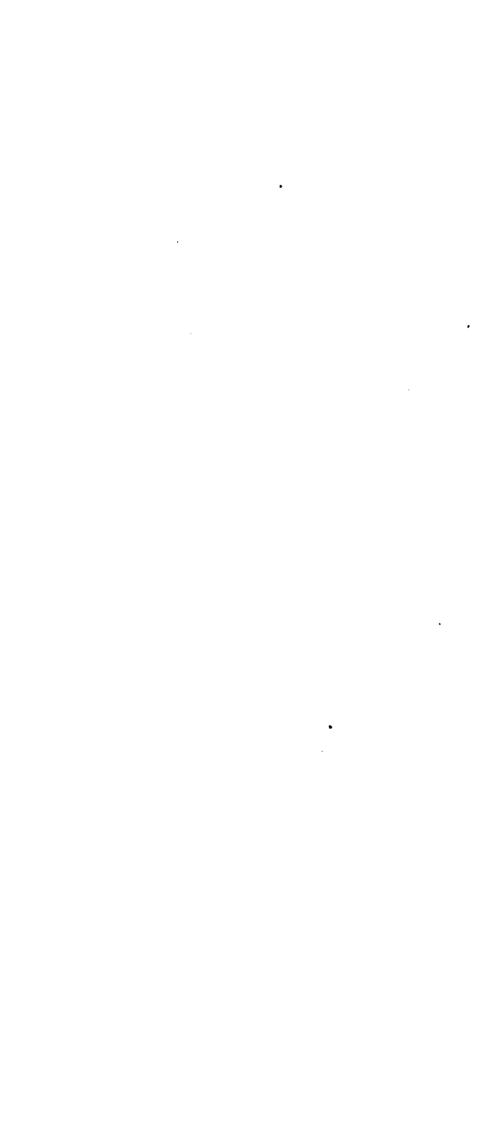
Common British Oak.

MONOECIA Polyandria.

- GEN. CHAR. Male, Cal. bell-shaped, lobed. Cor. none. Stam. 5—10. Female, Cal. bell-shaped, entire, rough. Cor. none. Style 1. Stigmas 3. Nut superior, leathery, with 1 seed.
- Spec. Char. Leaves deciduous, oblong, wider towards the extremity: their sinuses rather acute: their angles obtuse. Fruit-stalks elongated.
- Syn. Quercus Robur. Linn. Sp. Pl. 1414. Sm. Fl. Brit. 1026. Huds. 421, α. Relh. 378. Sibth. 133. Woodv. Med. Bot. t. 126. Mart. Rust. t. 10.
 - Q. feemina. With. 387.
 - Q. pedunculata. Hull. 212. Abbot. 210.
 - Q. latifolia. Raii Syn. 440.

IF in the foregoing page we have exhibited the most valuable British wood, with respect to the refinements of art, we here





[1845]

QUERCUS sessiliflora. Sessile-fruited Oak.

MONOECIA Polyandria.

GEN. CHAR. Male, Cal. bell-shaped, lobed. Cor. none. Stam. 5—10. Female, Cal. bell-shaped, entire, rough. Cor. none. Style 1. Stigmas 3. Nut superior, leathery, with 1 seed.

Spec. Char. Leaves on footstalks, deciduous, oblong: their sinuses opposite and rather acute. Fruit sessile. Syn. Quercus sessiliflora. Salisb. Prod. 392. Sm. Fl.

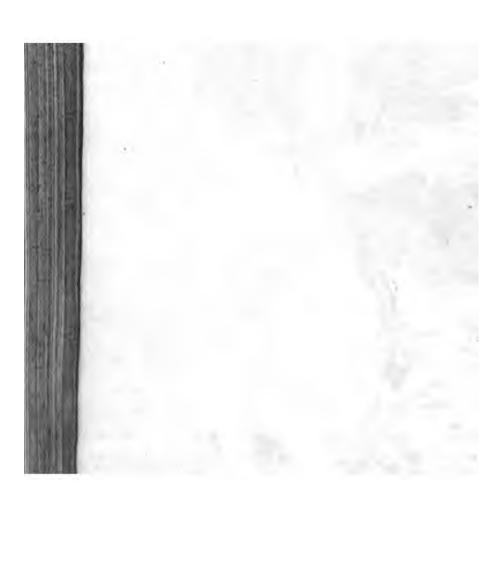
Brit. 1026. Galp. 80.

Q. Robur. With. 387. Hull. 212. Abbot. 210. Huds. 421, B. Mart. Rust. t. 11, 12.

Q. latifolia mas, quæ brevi pediculo est. Raii Syn. 440.

THE Sessile-fruited Oak, fortunately much less common than the true British Oak, t. 1342, as its timber is far less strong and durable, is however found in most parts of England. It is known by its leaves being more regularly and oppositely sinuated, which gives the tree a neater and more chesnutlike aspect, with generally longer footstalks; but especially by the female flowers, and consequently the acorns, being sessile. It is said to be somewhat later in flowering, and the leaves are commonly more permanent. Sometimes they are downy beneath, as in our specimens sent by Mr. W. Borrer and Mr. Lyell from Sussex, which variety is called the Durmast Oak. This abounds in the New Forest, and about Goodwood near Chichester; but however desirable as a variety in home plantations, it is to be rejected from all plantations for valuable purposes, and the true Q. Robur should be carefully preferred. Professor Martyn, whose Flora Rustica contains a full account of these trees, has only erred in considering the common smooth-leaved state of Q. sessilistora as belonging to the Robur, misled, as it seems, by the occasional footstalks of the leaves.







[886]

FAGUS Castanea.

Chefaut-tree.

MONOECIA Priparliis.

GIN. CHER. Male. Cal. bell-shaped, 5-clest. Cor.

Familie. Call 2-cleft. Cor. none. Styles 2 or 3, three-cleft. Needs 2 or 3, invested with the leathery prockly onlys.

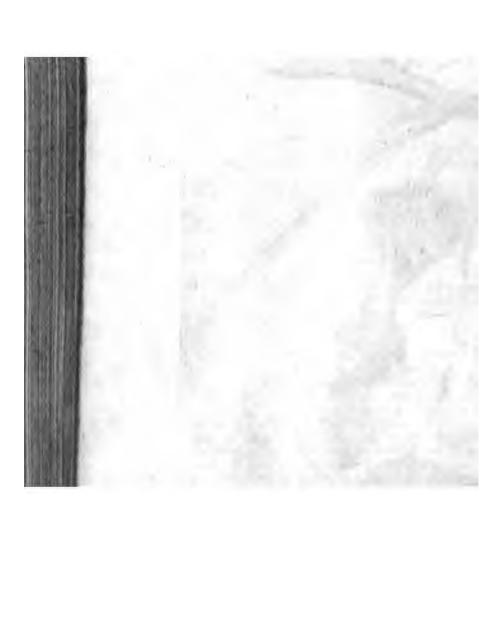
Step. Case. Leaves lanceolate, sharply ferrated, smooth beneath. Prickles of the fruit compound and entempled.

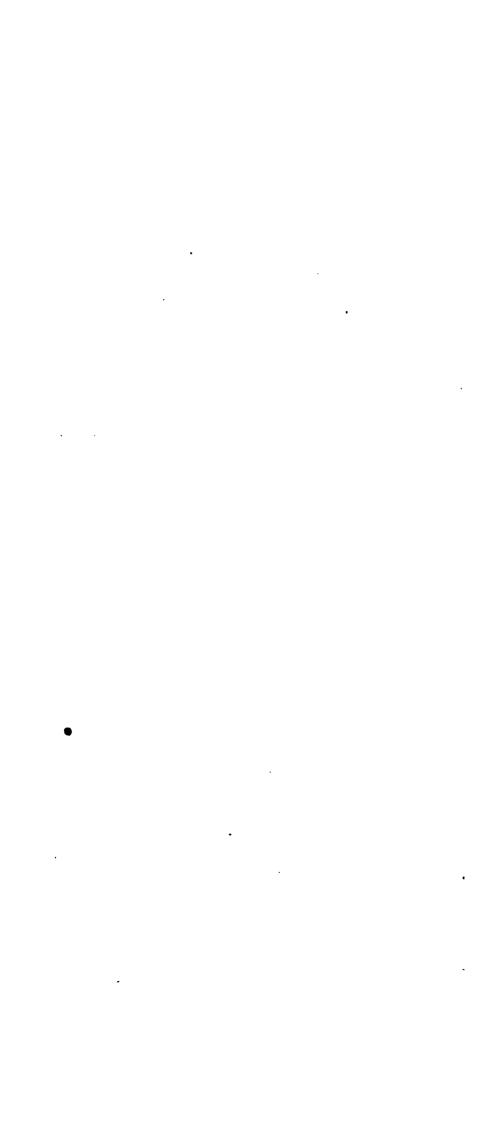
Six. Faras Calizoti. Lim. Sp. Pl. 1416. Hudj. 422.

Colonia Lia Gragio.

HE Therium is the medificately of all our native trees, we are committed analyse of the fourth and weftern parts of this iffinite an appears to be able the most long-lived; for a construct known to have been a boundary tree in the time of King count. Itali committees to bear fruit at Tortworth. Grance, onto we have been favoured with its bloffoms







T 1846]

FAGUS sylvatica. Beech-tree.

MONOECIA Polyandria.

GEN. CHAR. Male, Cal. bell-shaped, 5-cleft. Cor. none. Stam. 5—12. Female, Cal. 4-cleft. Cor. none. Styles 2 or 3, 3-cleft. Nuts 2 or 3, invested with the leathery prickly calyx.

SPEC. CHAR. Leaves ovate, obsoletely serrated. Prickles

of the fruit simple.

STN. Fagus sylvatica. Linn. Sp. Pl. 1416. Sm. Fl. Brit. 1028. Huds. 422. With. 444. Hull. 213. Sibth. 152. Abbot. 210.

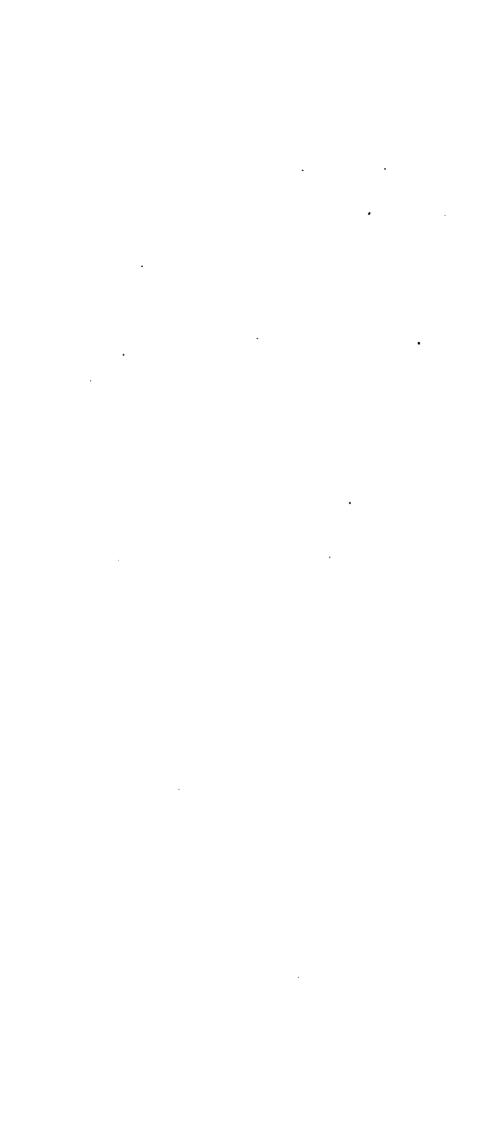
Fagus. Raii Syn. 439.

THIS handsome tree prefers a rich calcareous soil, forming in many parts of England very fine luxuriant woods, peculiarly dry and pleasant to walk in, and usually affording the botanist several interesting plants under their shade, as the Monotropa, Pyrolæ, and some rare Orchideæ. Grasses do not thrive beneath this tree. The wood is hard, but neither tough, nor lasting in the open air. The Beech makes excellent cut hedges for shelter, as the old leaves remain, though faded, through winter. It blossoms in April or May. The nuts, called Beech Mast, are eaten by hogs. Hill the poet had a project for extracting oil from them, which did not answer.









[2032]

CARPINUS Betulus.

Horn-beam.

MOSOECLA Polymbia.

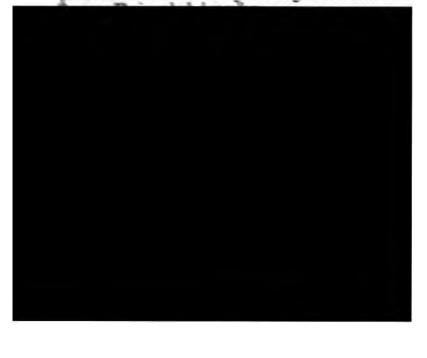
Gex. Chean. Male, Cal. the scale of a cathin, roundish.
Soun. 8—20. Female, Cal. toothed. Styles 2.
Nuc at 1 cell, closely invested with the angular carics.

Seec. CEAR. Brackers of the fruit oblong, serrated, fact, with two lateral lobes.

Sex. Carpinus Bendes. Linn. Sp. Pl. 1416. Sm. Fl. Brz. 1029. Huds. 422. With 442. Hull. 213. Bod. 575.

Charva ulus similis, fracta in umbilicis foliaceis. Raii Line. 451.

The Harabean thrives on a rather meagre clayey damp soil, such as Enging faster and Finchley common, where it abounds, favoring in Agen. Limiters justly observes that the wood it white, were taugh, and harder than hawthorn. The tree is no a handle size, densely branched, and bears cutting, qualities which remain it is for garden bedges in the north of







[==]

CORTLUS Amilia

KIFILIII Popular

CER CEAR Mine. Cal the feate of a catkin, three-

France Co. cover tree Cor. some. Style 2, Nor water impute, if I call clothed with the Swelling arrangements calve.

heart Ca. a. Strong war, situit. Leaves roundish, near-shapest numeri. Young branches hairy.

Sen Carins Avelanne. Line Sp. Pl. 1417. Hull.

C journs Laider 1391

The manner Hale-nur, is frequent in bedges and copies, is one of the surface of our integrations. Its male cathins, which has business in the preceding frames, arrive at full







PINUS sylvestris.

Scotch Fir.

MONOECLA Monadelphia.

GEN. CHAR. Male, Cal. the scale of a catkin, peltate.

Cor. none. Anthers sessile upon the scale.

Female, Cal. the scale of a catkin, two-flowered.

Cor. none. Nut winged, of one cell.

Spec. Chas. Leaves rigid, in pairs. Young cones stalked, recurved. Crest of the anthers very small.

Sys. Pinus sylvestris. Linn. Sp. Pl. 1418. Sm. Fl. Brit. 1031. Huds. 423. With. 615. Hull. ed. 2. 282. Lightf. 587. Ger. em. 1356. Woodv. Med. Bot. t. 207. Lamb. Pin. 1. t. 1.

P. sylvestris, foliis brevibus glaucis, conis parvis albentibus. Raii Syn. 442.

THIS well-known tree, of which a wild specimen was brought us by Mr. Borrer, grows plentifully throughout the highlands of Scotland, either scattered or in vast natural forests, and is the only native Pinus of Britain. It flowers in May, but the cones are two years in ripening. The uses of the wood, and of the tar, pitch, and turpentine yielded by this tree, in common with most others of its genus, are familiar to every body. Its hardiness renders it fit to brave the cold winds of many bleak situations, till more beautiful and valuable plantations can spring up under its shelter; but hence fir woods, in themselves, are associated with ideas of dreariness, as well as of sandy sterility of soil; nor is their green, though perpetual, of an agreeable or cheerful kind, like the stately Spruce of the "Norwegian hills," and alpine forests of Switzerland and Savoy.

The Scotch Fir lives to the age of 400 years or more, and is lofty and straight in its growth. The leaves are linear, acute, in pairs from membranous sheaths. Male catkins yellow, in dense spikes, which afterwards become branches. Pollen copious. Cones ovate, tessellated, tubercled, but not spinous.



